Historic, archived document

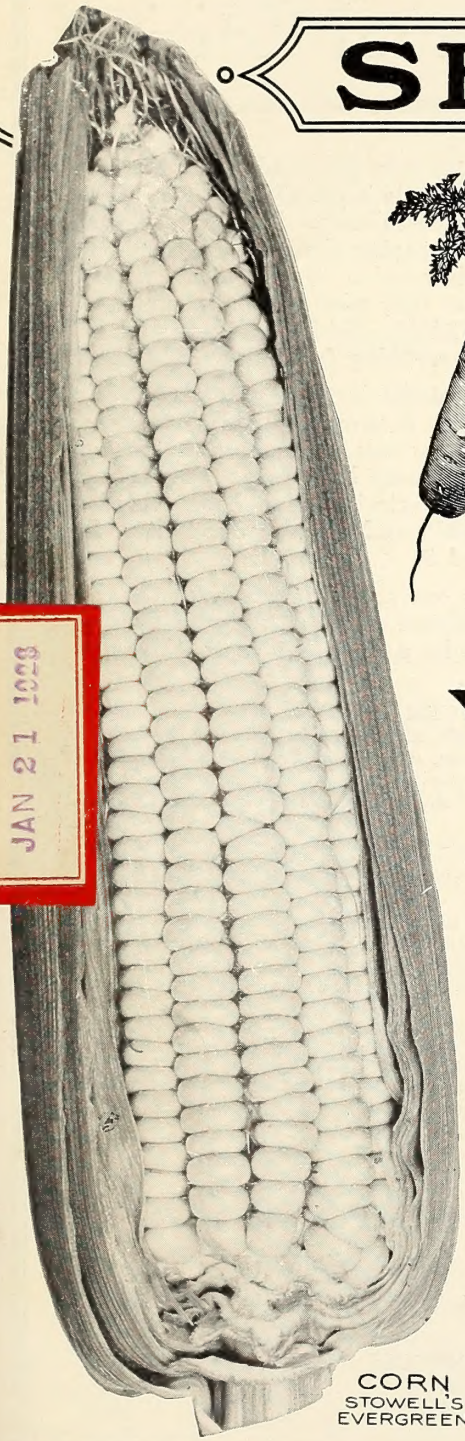
Do not assume content reflects current scientific knowledge, policies, or practices.

62.93

LIBRARY
RECEIVED
JAN 4 192
U.S. Department of Agriculture.

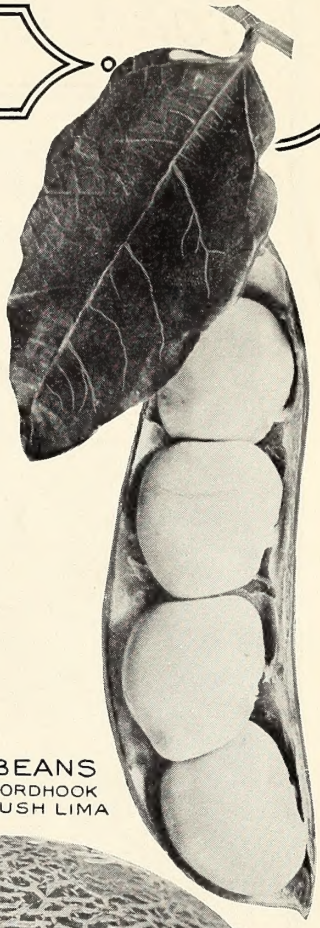
P. MANN & Co.

SEEDS



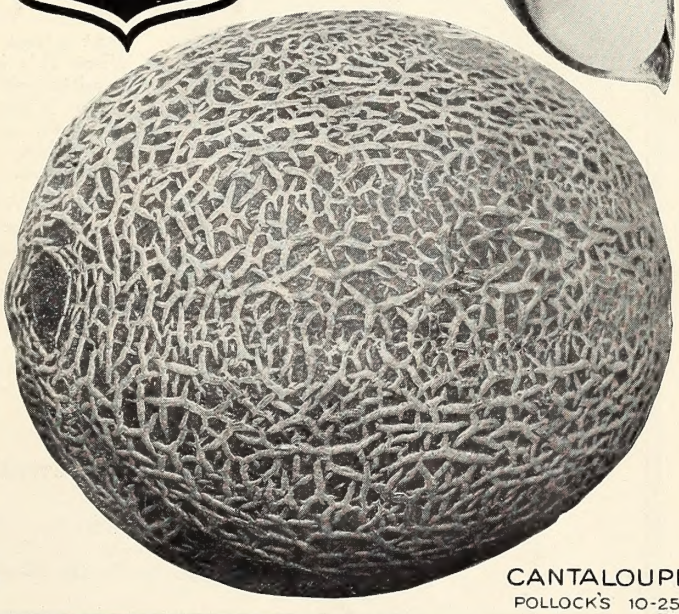
CORN
STOWELL'S
EVERGREEN

CARROT
DANVER'S
STUMP ROOT



BEANS
FORDHOOK
BUSH LIMA

1928



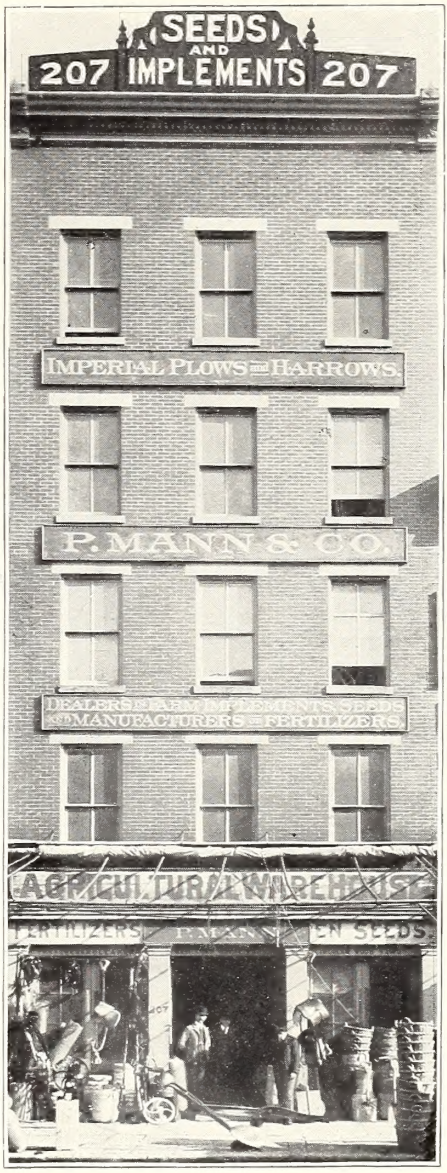
CANTALOUPE
POLLOCK'S 10-25

JAN 21 1928

For GARDEN *and* FARM
207 7th ST. N.W. ~ OPPOSITE CENTRE MARKET
WASHINGTON, ~ ~ D.C.
ESTABLISHED 1869

JAN 21 1928

MANN'S GARDEN BOOK *for* 1928, 59th Annual Edition



Thanks to our personal and customer friends who made it possible for last season to be a successful one. This to us is evidence of our keeping the faith and rendering an unselfish service to the local growers for the past fifty-nine years in supplying SEEDS, FARM, GARDEN and LAWN TOOLS—everything for Farm and Garden.

We are grateful for your patronage, which has enabled us to prove our ability to supply seeds that you can depend on to produce and make the very best crop. Several new and worthy varieties have been added to our Vegetable and Flower Seed list. See pages 2 and 3.

It will be our constant endeavor to merit your confidence on the merchandise we sell and to be a real service to the whole community.

WE DELIVER FREE to any Postoffice all vegetable seeds mentioned in this catalogue, if in packets, ounces, quarter or half pounds, pints and pounds. Purchasers must pay charges on quarts, pecks or bushels, and on all agricultural tools and fertilizers.

WHEN ORDERING, please state whether you want goods shipped by mail, express or freight. When this is omitted, we use our best judgment. Remittances may be made by sending Postoffice Order, Express Money Order, Registered Letter or Draft. For small amounts, postage stamps are acceptable. Catalogues are sent free to all who want them.

NON-WARRANTY. P. Mann & Co. gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs or plants it sells, and will not be responsible for the crop.

Yours truly,

P. MANN & CO.

Telephone Main 1121

207 Seventh St. N. W. Washington, D. C.

STORE AND GENERAL OFFICES
207 Seventh St. N. W.
Opposite Centre Market

SPECIAL NOTICE! Owing to the unsettlement of values on the line of goods listed in this Catalogue, all prices are subject to change without notice.

THE PLANTERS' GUIDE

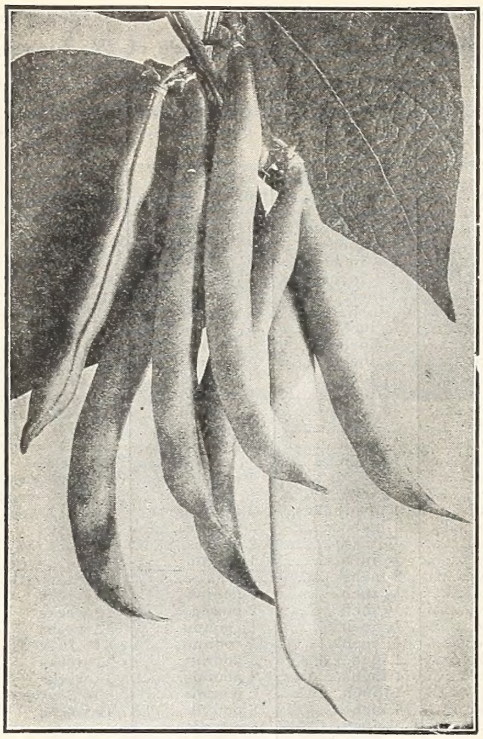
Containing a monthly calendar of operations and some useful tables, arranged to help the gardener or farmer in sowing seeds or setting out of plants from February to October in the latitude of Washington

VARIETY	Time to Plant	Quantity Required for Row of 100 ft.	Depth to Plant	Quantity Required for an Acre	Matured Ready for Use
Asparagus Seed	Mar. and Apr.	1 ounce	2 inches	6 to 8 lbs.	2 to 3 years
Asparagus Roots	Feb. and Mar.	100 roots	8 to 10 inches	5000 plants	1 to 2 years
Beans, Dwarf	Mar. to Sept.	1 pound	1½ inches	1½ bushels	8 weeks
Beans, Pole	Apr. to July	½ pound	1½ inches	¾ bushel	10 weeks
Beans, Dwarf Lima	May to Aug.	1 pound	1½ inches	½ bushel	12 weeks
Beans, Pole Lima	May to July	½ pound	1½ inches	½ bushel	12 weeks
Beets, Table	Feb. to Sept.	2 ounces	1 inch	5 pounds	10 weeks
Beets, Sugar	Feb. to Aug.	2 ounces	1 inch	5 pounds	12 weeks
Brussels Sprouts	Mar. to July	½ ounce	¼ inch	¼ pound	12 weeks
Cabbage Seed, Early	Sept. to Dec.	½ ounce	¼ inch	¼ pound	12 to 15 weeks
	Mar. to May	½ ounce	¼ inch	¼ pound	12 to 15 weeks
Cabbage Seed, Winter	May to Aug.		¼ inch	¼ pound	12 to 15 weeks
Cabbage for Plants, Early	Mar., Apr., Nov.	75 plants	¼ inch	¼ pound	12 to 15 weeks
Cabbage for Plants, Summer	Apr. and May	75 plants	¼ inch	¼ pound	12 to 15 weeks
Cabbage for Plants, Winter	May to Aug.	75 plants		¼ pound	12 to 15 weeks
Carrot	Mar. to Aug.	1 ounce	⅛ inch	4 pounds	10 to 12 weeks
Cauliflower	July and Nov.	¼ ounce	¼ inch	¼ pound	15 weeks
Celery	Apr. to July	¼ ounce		1 ounce	15 to 20 weeks
Collards	Mar. to Aug.	½ ounce	¼ inch	¼ pound	12 to 15 weeks
Corn, Sugar	Apr. to July	½ pound	1 to 2 inches	6 to 8 quarts	10 to 15 weeks
Cucumber	Apr. to July	½ ounce	1 inch	3 pounds	12 weeks
Egg Plants	Feb. to May	¼ ounce	½ inch	2 ounces	15 to 20 weeks
Endive	Apr. to Sept.	1 ounce	½ inch	1 pound	10 to 12 weeks
Horseradish Roots	Feb. to May	75 roots	2 inches		6 to 8 months
Kale, Spring	Feb. to Oct.	½ ounce	½ inch	2 pounds	10 weeks
Kale, Winter	July to Sept.	½ ounce	½ inch	2 pounds	12 weeks
Kohl Rabi	Mar. and Apr.	½ ounce	¼ inch	¼ pound	12 weeks
Lettuce	Mar. to Oct.	½ ounce	¼ inch	½ pound	8 to 12 weeks
Melon, Musk	Apr. to June	½ ounce	1 inch	3 pounds	12 weeks
Melon, Water	May and June	1 ounce	1 inch	3 pounds	15 weeks
Mustard	Mar. to Sept.	1 ounce	½ inch	2 pounds	6 to 8 weeks
Okra	Apr. to July	2 ounces	1 inch	8 pounds	10 weeks
Onions from Seed	Mar. to May	1 ounce	½ inch	5 pounds	15 weeks
Onions for Sets	Apr. to June, Mar. and Apr.	2 ounces	½ inch	50 pounds	10 weeks
Onion Sets	Sept. to Nov.	1 quart	1 inch	10 bushels	12 weeks
Parsley	Mar. to Sept.	½ ounce	¼ inch	5 pounds	10 weeks
Parsnips	Mar. to May	½ ounce	½ inch	5 pounds	15 weeks
Peas, Smooth	Feb. to Sept.	1 pound	3 inches	1½ bushels	6 weeks
Peas, Wrinkled	Feb. to Sept.	1 pound	2 inches	1½ bushels	10 weeks
Pepper	Feb. to June	¼ ounce	½ inch	8 ounces	15 weeks
Pepper Plants	May and June	75 plants	½ inch	8 ounces	8 weeks
Potatoes, Early	Feb. to Apr.	½ peck	4 inches	10 bushels	12 weeks
Potatoes, Late	July and Aug.	½ peck	4 inches	10 bushels	12 weeks
Sweet Potato Plants	May and June	75 plants			15 weeks
Pumpkins	May to July	½ ounce	1 inch	3 pounds	15 weeks
Radish	Feb. to Sept.	1 ounce	½ inch	25 pounds	4 weeks
Rape	Feb. to Sept.	1 ounce	½ inch	5 pounds	6 to 8 weeks
Rhubarb	Apr. and May	1 ounce	½ inch	8 pounds	
Rhubarb Roots	Feb. to June	50 roots	4 inches		1 year
Salsify	Apr. to July	1 ounce	½ inch	5 pounds	15 weeks
Spinach	March, Aug. 15 to Dec. 1	1 ounce	1 inch	20 pounds	6 weeks
Squash	May to July	½ ounce	1 inch	4 pounds	8 to 10 weeks
Tomato Seed	Feb. to June	¼ ounce	½ inch	4 ounces	15 weeks
Tomato for Plants	May to July	50 plants		4 ounces	10 weeks
Turnips and Rutabagas	Feb. to Sept.	1 ounce	½ inch	2 pounds	8 weeks

QUANTITY OF SEED REQUIRED PER ACRE AND WEIGHTS PER BUSHEL

VARIETY	Pounds Per Acre	Pounds Per Bushel	VARIETY	Pounds Per Acre	Pounds Per Bushel	VARIETY	Pounds Per Acre	Pounds Per Bushel
Clover, Red	15	60	**Tall Meadow Oat Grass**	22- 33	11	**Oats, Spring**	64	32
Clover, Mammoth	8- 15	60	**Pasture Mixture**	40- 45	—	**Barley**	84- 98	48
Clover, Alsike	8- 12	60	**Lawn Grass**	70- 80	—	**Wheat**	90-120	60
Clover, White	10- 12	60	**Rye Grass, Perennial**	30- 40	24	**Rape, Dwarf Essex**	4- 8	50
Clover, Alfalfa	18- 25	60	**Millet, German**	50- 62	50	**Vetch, Hairy**	40- 50	60
Clover, Crimson	12- 20	60	**Sorghum or Cane**	50- 75	50	**Vetch, with Rye**	25- 30	—
Clover, Sweet	20- 30	60	**Sudan Grass**	18- 25	40	**Vetch, Spring**	40- 50	60
Timothy	10- 15	45	**Buckwheat**	60- 72	48	**Canada Field Peas**	150-160	60
Orchard Grass	28- 35	14	**Corn**	10- 12	56	**Canada Field Peas, with Oats**	90-100	—
Red Top, Fancy	12- 15	40	**Corn, for Silage**	30- 35	56	**Cow Peas**	60- 90	60
Blue Grass, Kentucky	35- 45	14	**Rye**	70- 84	56	**Soja Beans**	60- 75	60
Meadow Fescue	28- 35	14	**Oats, Winter**	48- 64	32			

MANN'S VEGETABLE SPECIALTIES FOR 1928



Stringless Green Pod

Mann's Stringless Green Pod Beans

A new second early variety. The plant is of true bush habit and bears an enormous quantity of handsome pods of light green color. They are brittle, tender, fleshy and absolutely stringless, even when fully matured. High quality, stringlessness and productiveness should be sufficient to recommend this bean to every planter. **Pt. 40c, qt. 75c, pk. $4.00, bu. $15.00.**

Improved Wonder Bush Lima Bean

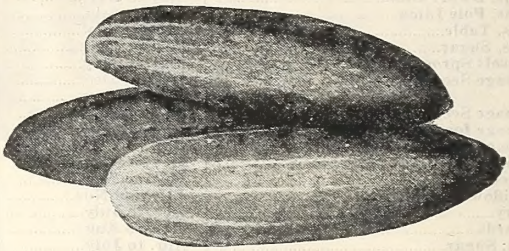
INOCULATE THIS SEED WITH MULFORD CULTURE

Mann's Improved Wonder Bush Lima

This is one of the earliest of the large seeded Limas. The plants are vigorous and productive. The pods are medium green, very large, about 5 inches long, containing 4 unusually thick and very large beans of excellent quality. Seed very large, thick and usually show a greenish tinge, which is generally considered an indication of quality. **Pt. 45c, qt. 85c, pk. $6.00, bu. $20.00.**

Mann's Favorite Cucumber

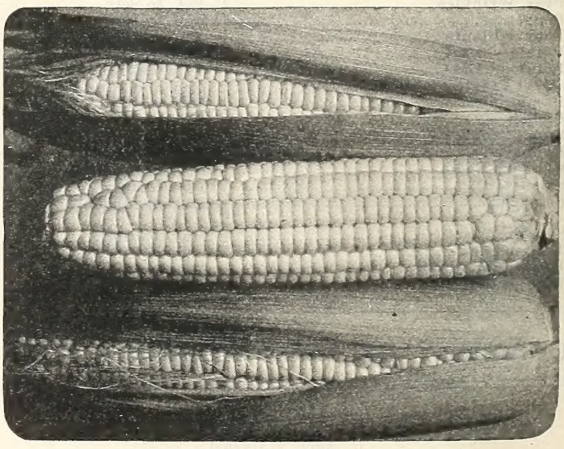
A selection of a medium early White Spine. In color it is a very deep green which holds for a long time, and unlike many other varieties, the color does not commence to change until fruits are quite mature. Of finest quality. The cylindrical fruits are 7 to 8 inches long. A great favorite in Florida for shipping North. **Pkt. 15c, oz. 40c, ¼ lb. 75c, lb. $2.50.**



Favorite Cucumber

Mann's Early Sugar Corn

A big-eared medium early corn with the sweet flavor of the late varieties; the ears are 7 to 8 inches long; the stalks grow about 5 feet high and usually bear two ears with 12 to 14 rows of pearly white grains; the shuck extends well over the tip and protects it from the green worm so destructive to early sweet corns. **Pt. 30c, qt. 50c, pk. $2.25, bu. $8.00.**



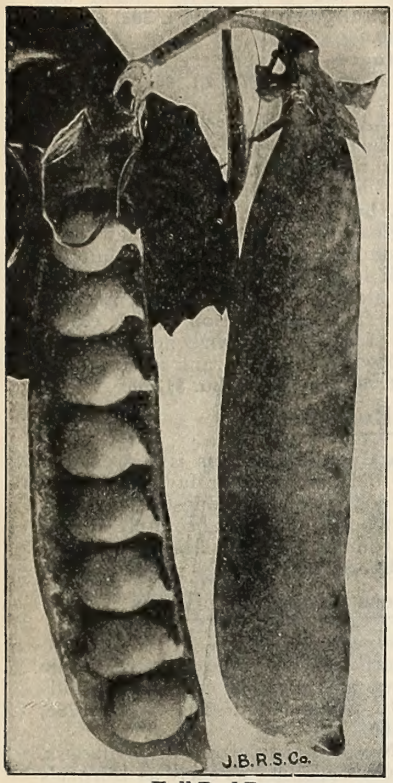
Early Sugar Corn

Vigoro

VIGORO is the ideal plant food for the home garden. It produces vegetables that are succulent, crisp, and of a delicious flavor. VIGORO enables the home gardener to grow the earliest vegetables in the neighborhood, and through its use he may increase the production of a given piece of land materially. Odorless—Weedless—Dustless.

5-lb. can	**$ .60**	**50-lb. bag**	**$3.00**
25-lb. bag	**1.75**	**100-lb. bag**	**5.00**

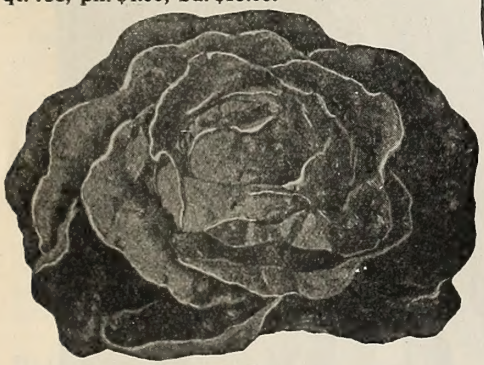
MANN'S VEGETABLE SPECIALTIES FOR 1928



Full Pod Pea

Mann's Full Pod Pea

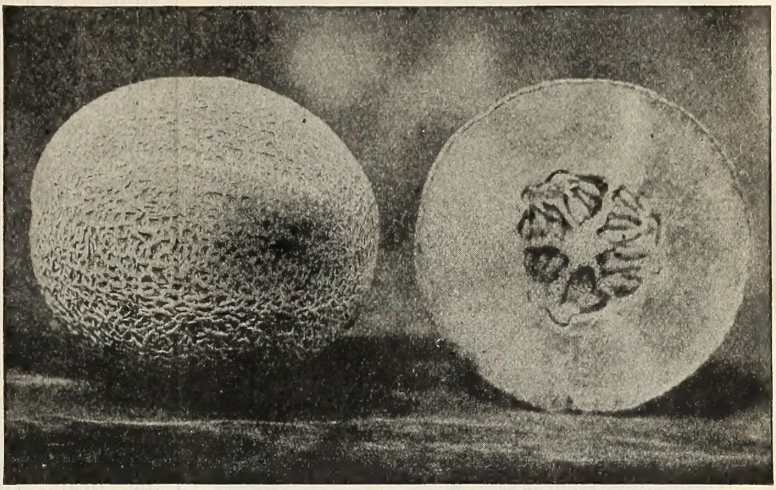
An extremely valuable variety, superior to Nott's Excelsior and American Wonder, especially suited to small home gardens, and also a splendid variety for early market gardening. It matures very early and produces large crops. The vines grow about 15 to 18 inches in height. The pods are dark green. **Pt. 40c, qt. 75c, pk. $4.00, bu. $15.00.**



Imperial Lettuce

Mann's Imperial Lettuce

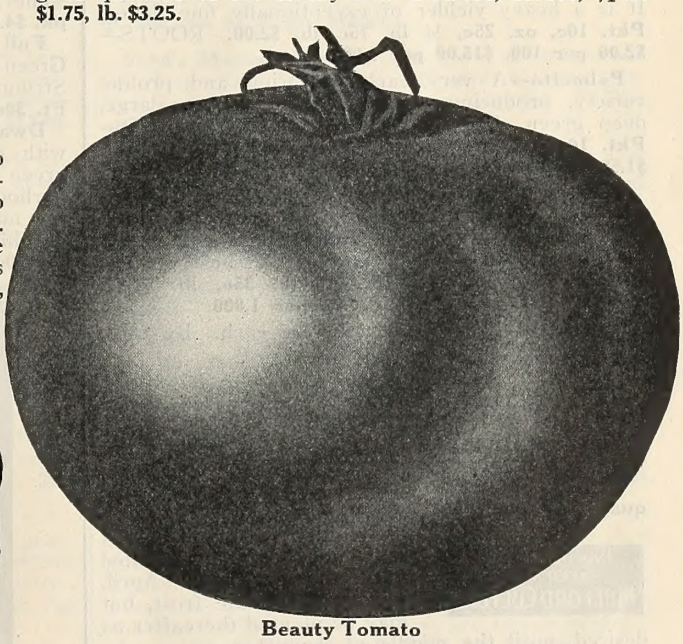
A Winner for the Home Garden. One of the very best cabbage varieties for summer heading. Heads are so compact and solid they seldom go to seed. Inside is thoroughly blanched and of the finest flavor. Leaves broad, slightly crumpled, and border finely frilled. **Pkt. 15c, oz. 35c, ¼ lb. $1.00, lb. $3.00.**



Surprise Cantaloupe

Mann's Surprise Cantaloupe

This melon is becoming more popular every year among the market gardeners, owing to being blight proof and bearing fruit long after the vines of most early varieties have died. It is a very heavy yielder and has all the good qualities of the Rockyford. **Pkt. 15c, oz. 50c, ¼ lb. $1.75, lb. $3.25.**

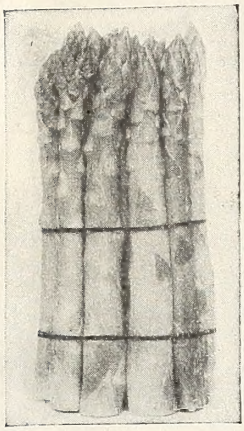


Beauty Tomato

Mann's Beauty Tomato

The finest large-fruited early purple variety. A decided favorite for home market or shipping, being early, hardy, a strong grower, productive, large, always smooth, perfect shape, and excellent in quality. Color a very glossy crimson, with a tinge of purple. Grows in clusters of 4 to 6 large fruits, retaining its large size late in the season. Ripens early and is entirely free from ribbed and elongated fruit. Flesh very firm, has a tough skin and but few seeds. Seldom rots or cracks after a rain. **Pkt. 15c, oz. 40c, ¼ lb. $1.25, lb. $4.00.**

Asparagus



Washington Asparagus

CULTURE.—Succeeds well in any good rich soil, but a light warm soil which has been heavily manured for the previous crop is best. Soak the seeds for 24 hours; plant 2 inches deep in drills 2 feet apart. When well up, thin out to 3 inches apart and give frequent and thorough cultivation, keeping the plants clean from weeds. The roots can be transplanted, either at one or two years old, either in the fall or spring. After the cutting season is over spray with Bordeaux mixture to control rust; put into the spray mixture Paris green or arsenate of lead to kill the asparagus beetles.

An ounce will plant a row 50 feet long; 2 pounds will make enough roots to set an acre.

Washington—This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust-free. The shoots are thick and heavy. They are long and straight, with closely folded tips. The color is rich dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor. **Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. $2.00.** ROOTS—**$2.00 per 100, $15.00 per 1,000.**

Palmetto—A very early maturing and prolific variety, producing an abundance of very large, deep green shoots of the best quality. SEED—**Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.** ROOTS—**$1.50 per 100, $10.00 per 1,000.**

Conover's Colossal—This sort is one of the largest and most extensively used green varieties. Shoots bright green, sometimes tinged with purple at the top, very tender and of the best quality. SEED—**Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.** ROOTS—**$1.50 per 100, $10.00 per 1,000.**

Asparagus Knives—50c and **60c** each. By mail, add **7c** postage.

Beans

Dwarf or Bush, Green Pod

Prices subject to change without notice. One quart will plant 100 feet of drill.

INOCULATE THIS SEED WITH MULFORD CULTURE

CULTURE.—Dwarf Beans may not be safely planted until the middle of April, owing to the late frost, but may be planted thereafter as desired, until the middle of August.

Select high, rich soil, make drills two feet apart, drop beans along the rows and cover with earth. Hoe often to keep earth to the stems.

Improved Extra Early Red Valentine—Is the favorite sort for growers who supply the early markets, because its growth is so rapid, and because it stands shipment perfectly. It is a heavy cropper, and ready to pick in about forty days. **Pt. 30c, qt. 60c, pk. $3.00, bu. $11.00.**

King of the Earlies—Possesses all the merits of the Red Valentine, and in addition has other valuable points. The pod is fully one-third longer than the Red Valentine and is perfectly round and straight, of a beautiful green color. **Pt. 30c, qt. 60c, pk. $3.00, bu. $11.00.**

Extra Early Refugee—The pods are fleshy and of fine quality; very hardy. **Pt. 30c, qt. 60c, pk. $3.50, bu. $12.00.**

New Bountiful—A new green-pod Bush Bean, which comes into bearing very early and continues almost throughout the season. Absolutely stringless; good shell bean for winter use. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**

Burpee's Stringless Green Pod—This new bean produces a vine similar to Red Valentine, but develops pods to edible condition two or three days earlier than the Valentine; that is to say, in thirty to thirty-one days from germination, which extraordinary maturity for table at once advances the Stringless Green Pod to the first rank among table beans. **Pt. 30c, qt. 60c, pk. $3.25, bu. $12.00.**

Green Podded Bush Beans

Giant Stringless Green Pod—This is a great improvement on the old-time popular favorite Valentine Bean. The pods are fully one-third longer, averaging 5 to 6 inches in length; absolutely stringless, very crisp, round, full and fleshy. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**

Mann's Stringless Green Pod Beans

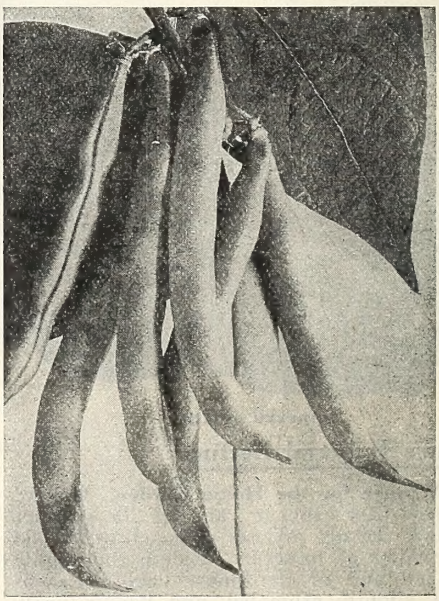
(SPECIALTY, see page 2.)

A new second early variety. The plant is of true bush habit and bears an enormous quantity of handsome pods of light green color. **Pt. 40c, qt. 75c, pk. $4.00, bu. $15.00.**

Full Measure (New)—Large cropper; Stringless, Green-podded, round Bean, not as early as Burpee's Stringless, but a heavy yielder. Best of quality. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**

Dwarf Horticultural—Large green pods, splashed with carmine. Excellent either as snaps in the green state, or shelled green or dry. In this neighborhood it is one of the very best selling beans on the market. **Pt. 30c, qt. 60c, pk. $3.25, bu. $12.00.**

White Pea, or Navy—Boston Baking Bean. **Pt. 20c, qt. 40c, pk. $2.00, bu. $7.00.**



Burpee's Stringless Green Pod

Pole Beans

Use one quart of seed for 100 hills.

Kentucky Wonder—Also known as Old Homestead. We believe this variety is the most practically useful of the green-podded pole Beans suitable for use as snaps. It is an early, very prolific sort, with showy pods which are of most excellent quality. The vines are vigorous, climbing well, and very productive, bearing pods in large clusters. **Pt. 30c, qt. 60c, pk. $3.00, bu. $11.00.**

Horticultural Cranberry (Cut Short)—One of the best for family use. The pods are tender, and of fine quality. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**

Kentucky Wonder Wax—This virgorous wax-podded pole Bean is very similar to the green-podded Kentucky Wonder, but the pods are a little broader. They are very fleshy and stringless as snaps and are of excellent quality. The pods are very long, handsome light yellow, often 8 to 9 inches in length. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**

Lazy Wife—A white-seeded variety, with long, green pods. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**

Dwarf Wax Beans

Wardwell's Kidney Wax—Long pods and very prolific. Handsome in appearance, entirely stringless. The foliage is free from blight, while the pods are rustproof. The pods are 6 inches in length, ½ inch broad, and ⅜ inch thick; the color is a rich yellow. **Pt. 30c, qt. 60c, pk. $3.25, bu. $12.00.**

Black Wax, Improved Prolific—One of the best for a home garden, perfectly stringless and of excellent flavor. Pods medium size, round, and of clear, waxy white color. **Pt. 30c, qt. 60c, pk. $3.25, bu. $12.00.**

Refugee Wax, Keeney's Stringless—This new variety of dwarf Wax Bean is an improved type of the Refugee Wax. The plants are of very robust growth and extremely early and productive, bearing profusely the large beautiful pods which are of delicious flavor. The pods are round, pencil-like. The color is a rich golden yellow and the quality is excellent. **Pt. 30c, qt. 60c, pk. $3.25, bu. $12.00.**

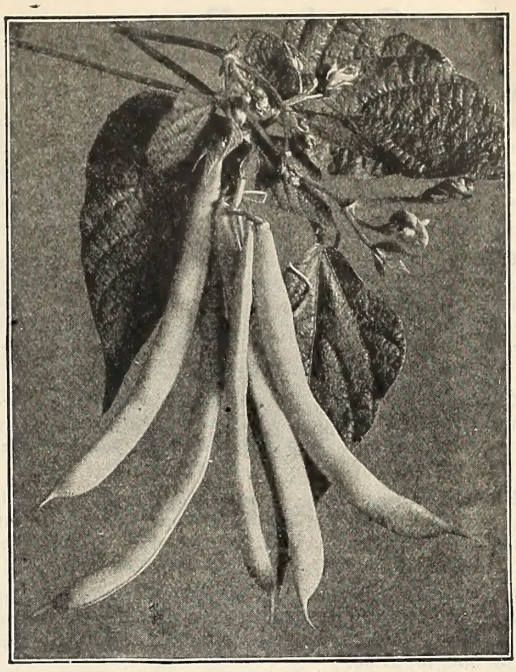
Golden Wax, Improved Stringless—A vigorous and wonderfully productive Bean of excellent quality. The pods are thick, meaty, entirely stringless and tender. The plant throws out long, pod-bearing tendrils, which appear at first like runners, but it is a true bush Bean. We recommend it very strongly for its productiveness and fine quality. **Pt. 30c, qt. 60c, pk. $3.25, bu. $12.00.**

Currie's Rustproof Wax—It is hardy and practically rustproof. Pods grow long, flat, and are tender and of fine quality. Very early productive, and by far one of the best shipping beans on the market. **Pt. 30c, qt. 60c, pk. $3.25, bu. $12.00.**

Pole Lima Beans

Seibert's Early Lima—Extra early, vigorous growth and productive. Pods long and well filled. Beans large and handsome. Gives entire satisfaction wherever grown. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**

Carpinteria Pole Lima—A new variety, producing beans of largest size, with a greenish tint, which is so much desired both for market and family use. The beans are of the very finest quality, thin skin, extra tender, and of the finest flavor. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**



Stringless Golden Wax Beans

Ford's Mammoth—The pods grow to an average length of eight inches, are produced in great clusters, with from five to seven beans per pod. **Pt. 30c, qt. 60c, pk. $3.75, bu. $14.00.**

King of the Garden—Large bean and pod; very heavy cropper. **Pt. 30c, qt. 60c, pk. $3.50, bu. $13.00.**

Bush Lima Beans

One quart plants about 150 hills, or 100 feet of drill.

Plant in light, rich soil in drills 2 feet apart, dropping the seeds about 1 foot apart in the row, and cover 2 inches.

Fordhook—This is altogether unique. Nothing like it has ever been seen before. It is the first and only stiffly erect bush form of the popular Potato Lima. **Pt. 30c, qt. 60c, pk. $4.00, bu. $15.00.**

Burpee's Improved—The luscious green Beans are larger than any Limas ever known before. It is fully eight to ten days earlier than any other large Limas, will outyield Burpee's Bush Lima by fully one-third, as the pods are very much larger, while the beans, either green or dry, are nearly twice as thick. **Pt. 30c, qt. 60c, pk. $4.00, bu. $15.00.**

Dreer's—This valuable bush Bean possesses all the good qualities of the Dreer's Pole Lima. **Pt. 30c, qt. 60c, pk. $4.00, bu. $15.00.**

Mann's Improved Wonder Bush Lima

(SPECIALTY, see page 2.)

This is one of the earliest of the large seeded Limas. **Pt. 45c, qt. 85c, pk. $6.00.**

Garden Beets

CULTURE.—If wanted very early, sow in hot-beds and transplant. For general use, plant seed as early as ground can be nicely worked, usually about first of April. Sow in drills 1 foot apart, about 1 inch deep, and thin out to 2 inches apart in rows. One ounce of seed to 50 feet of drill, 6 to 8 pounds per acre.

Crosby's Egyptian—This variety is as early as the original Egyptian, but by careful selection has been made thicker and of better quality. For early use, either for market or for family gardens, this variety easily takes the lead. **Pkt. 5c, ounce 15c, ¼ lb. 35c, lb. $1.00.**

Crimson Globe—A second early variety, somewhat oblong in shape, with smooth skin and very dark flesh. Good quality. **Pkt. 5c, ounce 15c, ¼ lb. 35c, lb. $1.00.**

Early Eclipse—Very early, dark red color, small top and free from fibrous roots; will grow without thinning the plants. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

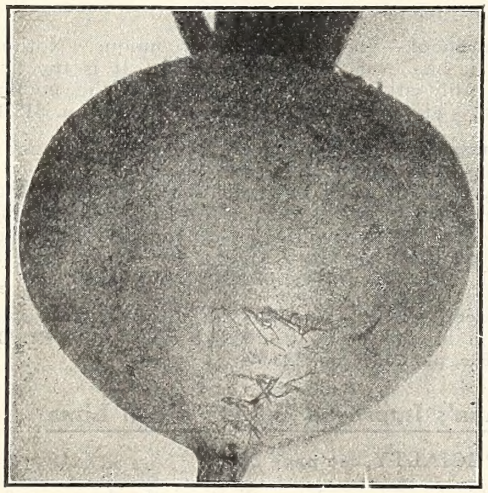
Detroit Dark Red—Very early and an excellent keeper. Tops small. Roots dark red and globular in shape. Tender and sweet. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Improved Early Blood Turnip—An improved variety of the Early Blood Turnip; of deep blood-red color, fine form and flavor. An excellent market sort. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Edmand's Early Blood Turnip—Of beautiful, round form and good size. Flesh dark red and of finest quality. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Bassano—Top large, leaf stems light red, leaf light green, root large, round, Turnip-shaped, flesh pink zoned with white, very sweet and tender when young. An excellent sort to plant for use as greens. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Crosby's Improved Egyptian—Very early; smooth, globe-shaped. Dark blood red. One of the best for planting early out of doors. It becomes fit for use sooner than any other vareity, and is equally suited for forcing in hotbeds or for transplanting. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**



Crosby's Improved Egyptian Beet

New Wonder—This beet is the result of many years of expert selection with a special strain of Crosby's as a basis. In this new beet we have perfect form, small tops and tap root, beautiful color, and extra early maturity. For forcing and bunching it is unequalled by anything on the market while the rich color, tenderness and flavor of the flesh make it extremely desirable on the table. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

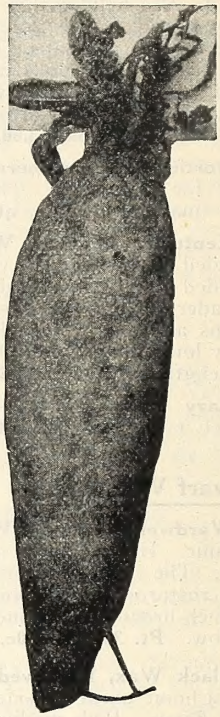
Selected Mangel Wurzels

Six pounds of seed will sow an acre.

An invaluable crop for stock feeding. Sow from April to June on well-cultivated, deep, rich soil, in drills 24 to 30 inches apart.

Mammoth Long Red—The largest and heaviest cropper of all the long red sorts. A most valuable and distinct variety and very popular on account of its nutritious and milk-producing qualities. **¼ lb. 20c, lb. 60c.**

Giant Golden Tankard—Flesh bright golden, yellow, differing in this respect from all other varieties which cut white. **¼ lb. 20c, lb. 60c.**



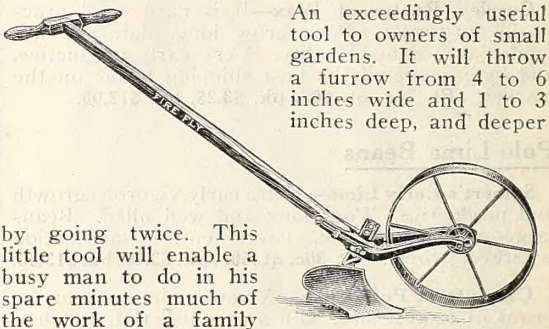
Mammoth Long Red Mangel Wurzels

Swiss Chard or Spinach Beet

CULTURE.—Swiss Chard is a beet grown for its leaves. The mid-rib when boiled makes delicious greens, or the leaves may be boiled and served as spinach. Sown in the spring, the leaves are soon ready to eat, and will continue to grow all through the summer and fall. If given a little protection it will survive the winter and make excellent greens early in the spring. **One ounce will sow 60 feet of drill.**

Lucullus—A new variety with curled leaves like a Savoy cabbage. The plant grows nearly two feet high and the stem and leaves are very large and of fine quality. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

This is a Fire Fly Garden Plow



An exceedingly useful tool to owners of small gardens. It will throw a furrow from 4 to 6 inches wide and 1 to 3 inches deep, and deeper by going twice. This little tool will enable a busy man to do in his spare minutes much of the work of a family garden. Chicken raisers find it very useful in plowing up scratching yard. Price **$4.25.**

American-Grown Selected Cabbage

Choux Pommes, French
Kopf Kohl, German

One ounce will produce about 2,000 plants. Quarter pound of seed in beds will produce plants for one acre.

CULTURE.—Start your early crop in hot-bed middle of February, covering seed about one-half inch; transplant to cold frames soon as plants are large enough, three or four inches each way. Remove glass part of each day to harden plants, and plant out in open ground middle of April. For general crop sow in open ground in June in hills three feet apart.

Early Varieties, Pointed Heads

Early York—A well-known variety, of small size; shape roundish oval. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

Early Jersey Wakefield—A gem of a little cabbage and great favorite with home gardeners on account of its size; can be planted closer than large varieties and its size makes it the best variety for backyard gardens where small amounts are wanted at one time. This is also a great favorite with market gardeners for an extra early crop. A good sure cropper. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

Charleston Wakefield—Just a little later and larger than the Early Jersey, and is fine for following this crop; both cabbage are the same shape, the greatest difference being in the size. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

Henderson's Early Spring—This variety is nearly as early as the Jersey Wakefield, but the heads are of the round, flat type of Early Summer. It has very small outer leaves, short stem and very small heart, making almost entire head fit for use. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

All-Head Early—A thoroughbred sort, especially recommended on account of its uniform size and shape and reliability for heading. Makes a deep flat head, solid and uniform in color, shape and size. In tenderness it is unsurpassed. Can be grown either for summer or winter use. **Pkt. 10c, oz .30c, ¼ lb. 90c, lb. $3.00.**

Early Flat Dutch Cabbage

Charleston Wakefield Cabbage

Henderson's Early Summer—About 10 days later than the Early Wakefield, but being fully double the size, it may be classed as decidedly the best large Early Cabbage, and is deservedly popular with market gardeners. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $3.00.**

Copenhagen Market—The earliest large, round-headed cabbage yet introduced. The heads are of exceptionally large size for so early a variety. The plant is of vigorous habit, but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. The heads are round, very solid and of exceptionally good quality. Its earliness, compact growth, uniformity and size of head, firmness and most excellent quality combine to make Copenhagen Market the most valuable cabbage of recent introduction. We recommend it unreservedly both for the home garden and the market gardening trade. **Pkt. 10c, oz. 30c, ¼ lb. $1.00, lb. $3.50.**

Early Flat Dutch—Most popular cabbage in South Texas and Gulf Coast sections for a market and shipping variety. A splendid strain of Flat Dutch, just a little later than the old-time Early Flat Dutch. Fine shipping variety for all sections. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

All Seasons—A fine early flat-head cabbage, adapted to culture in all seasons of the year; a good header and keeper, making medium-sized heads; a good all-around cabbage for any purpose. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

Hammond's Slug Shot for Cabbage Worms

A non-poisonous powder; it requires no further mixing or preparation; easily applied; not injurious or dangerous to animals, the person applying it, or the fruits and vegetables treated; destroys potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. **1-lb. carton 25c, 5-lb. pkg. 55c.**

Danish Ball Head Cabbage

Late or Autumn and Winter

Danish Ball Head—This most excellent variety of Cabbage coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York and Boston markets. (See illustration.) **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

The Volga—The heads are uniform and solid, weighing from 10 to 15 pounds each; flesh firm, sweet and tender. **Pkt. 10c, oz. 30c, ¼ lb. $1.00, lb. $3.50.**

Perfection Drumhead Savoy—The Savoy Cabbages are very tender and of fine flavor, very much superior in this respect to the ordinary late Fall and Winter Cabbage. Should be much more largely grown, both for home use and market. The strain of American Drumhead Savoy which we offer makes large-sized heads of most superior quality; truckers and private gardeners alike will find it an excellent variety. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $3.00.**

Large Late American Drumhead (American Grown)—One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

World-Beater or Autumn King—This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

Red Rock—The head is round, large, solid and a deep red color, the best of the red cabbages. **Pkt. 10c, oz. 30c, ¼ lb. $1.00, lb. $3.50.**

Premium Flat Dutch—The heads are large and solid; round in shape. Excellent keepers. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.75.**

We can supply all kinds of Vegetable Plants in season, such as Tomato, Cabbage, Celery, Sweet Potato, Eggplants, Peppers, Lettuce, etc., by the dozen or hundred.

Chinese or Celery Cabbage

Also called Pe-Tsai, and Cut Cabbage, by Chinese gardeners, and is beginning to attract attention in America. It does not form a Cabbage head, but when grown to its full size resembles the Cos Lettuce and the outer leaves may be used during its growth. It is odorless while being cooked, and the flavor is delicious, being very mild, and it is excellent for use as a salad or cooked like Asparagus. We are quite sure that it will please all who partake of it. Sow seed after July 1st and give plenty of room to the plants, setting in rows 3 feet apart and 2 feet apart in the row. **Pkt. 10c, oz. 30c, ¼ lb. $1.00, lb. $3.50.**

Cress

Upland—The most popular variety for market; excellent flavor. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

Watercress—Cultivated by sowing the seed by running water or near a spring which is not severely frozen through the winter. **Pkt. 10c, oz. 40c, ¼ lb. $1.25.**

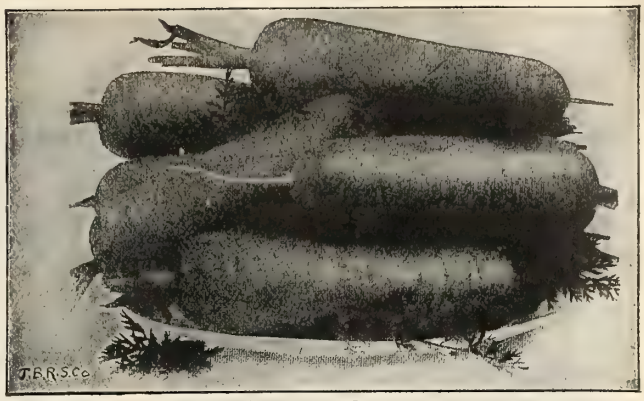
Carrots

One ounce to 150 feet drill. Two and one-half pounds to acre.

CULTURE.—Follow directions given for Beets and Parsnips, as there is no difference in the method of cultivating these roots.

Danvers Half-Long Stump-Rooted—A new variety, of decided merit; rich in color and of handsome shape. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Improved Long Orange—Deep orange color; long, smooth; popular for general crop. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.**



Chantenay Carrot

Chantenay, Half-Long—Resembles the Nantes, with larger shoulders; medium early and heavy cropper; one of the best for market. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Early Scarlet Horn—Small, but early. Best for forcing. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Danvers Half-Long Pointed Root—Early and very beautifully shaped; very rich in color and best for main crop. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

St. Vallery, or New Intermediate Carrot—One of the best main-crop carrots. It is noted for its smoothness of shape, its tenderness of flesh and beauty of color. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Corn Salad—Ackersalat

One ounce will sow about eighteen square feet and six pounds will sow an acre.

Broad-Leaved (Large-Seeded)—A delicious salad, used during the winter and spring months as a substitute for lettuce, and is also cooked and used like spinach. Sow in spring in drills 1 foot apart. It will mature in 6 weeks. For early spring use sow in September and winter over like spinach. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Paris Market Brussels Sprouts

Collards

Georgia, Southern, or Creole—This is the white or green-stemmed variety, growing 2 to 3 feet high and forming a large, loose, open head, or cluster of leaves, with a rather long stem. A frost, if not too severe, will improve rather than injure the quality of the leaves. Sow thickly in drills in rich ground, transplanting when 4 inches high, or sow in drills where the plants are to remain, and when well started thin to 2 or 3 feet apart in the row. In the South seed may be sown from January to May and from August to October. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Chicory

Sow early in spring, in good mellow soils, in drills half an inch deep, and 12 inches apart.

Large-Rooted Bagdeburg — The leaves when blanched make an excellent salad. **Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. $2.25.**

Witloof—Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. $2.25.

Dandelion

An early spring salad. Sow early in spring in drills 12 inches apart, and thin out 6 inches in the rows.

Improved French—Pkt. 10c, oz. 40c, ¼ lb. $1.50.

Brussels Sprouts

(Paris Market)

Belongs to the cabbage family, making clusters of miniature cabbage heads around the main stalk; these heads are very delicious, with a flavor something like cauliflower; tops grow open like collard heads. **Pkt. 10c, oz. 35c, ¼ lb. 90c.**

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Spray your vegetables with PYROX (Bowker's)

The one best and safest all-round spray which kills all leaf-eating insects and prevents blights and all fungous troubles, without injury. **See prices on page 35.**

Winter Queen Celery

Celery—Sellerie

One ounce to 3,000 plants. Ten to fifteen ounces to the acre.

Sow the seed in a well-prepared soil as soon as the ground is in a proper condition to work. Sow in drills and tread the seed firmly in; thin out to an inch apart, and keep the ground well worked and free from weeds. Make the soil very rich with well-rotted manure, which should be dug in deep. A moist, low rich bottom land or well-drained muck soil is preferable. Set the plants 8 or 12 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the tops of the center.

Golden Self-Blanching

(French-Grown, Superior Stock, Unsurpassed)

We have been furnishing our customers this strain of Golden Self-Blanching Celery for a number of years, and it is pronounced by one and all the finest strain they have ever seen. The color is a rich golden yellow, very solid and tender; flavor is delicious; has large heart; grows medium height, and is without doubt the best early celery on the market. **Pkt. 10c, oz. 50c, ¼ lb. $2.00, lb. $8.00.**

Winter Queen—This well-known strain possesses exceptional merit. Grows very thick, solid and heavy stalk, and has a large heart. It is a close, compact grower, and when blanched is a creamy-white color. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.75.**

Improved White Plume—An early self-blanching variety, very popular for fall and early winter use. **Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. $2.00.**

Dwarf Golden Heart—Very solid and excellent keeper, and of fine, nutty flavor; the heart, which is large and full, is of a waxy, golden yellow, rendering it very showy for either market or private use. **Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. $2.00.**

Giant Pascal—A green-leaved variety which was developed from the Golden Self-Blanching. Retains the beautiful color, thick, solid, crisp stalks and incomparable flavor of that variety, but is of stronger growth, also larger, producing perfectly blanched stalks. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

Celery Seed for Seasoning—Oz. 10c, ¼ lb. 20c, lb. 50c.

Celery Plants—We can supply all the principal varieties in season. Prices on application.

Celeriac or Turnip-Rooted Celery

Grown exclusively for its roots, which, when cooked, sliced and used with vinegar, makes a fine salad.

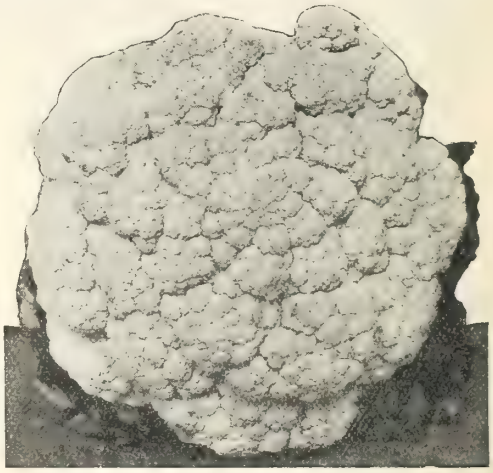
Giant Smooth Prague—The best variety; large and smooth roots; excellent keeper. **Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. $2.25.**

Cauliflower

One ounce produces about 3,500 plants.

Dry Weather Cauliflower—Especially adapted for growing in dry locations where nearly all other varieties fail, and for heads of good size. Dry Weather, which is also known as Gilt Edge and Danish Giant, is about one week later than our Early Snowball, is much larger and with much more foliage; hence it is not so suitable for forcing. The heads are very large, white, firm and compact, and being well protected by the dense foliage, are easily blanched and remain fit for use for a long time. **Pkt. 25c, oz. $2.25, ¼ lb. $7.50.**

Early Snowball—Our strain of this popular variety is unequaled. It is one of the best for forcing under glass or for the open ground. A sure header. **Pkt. 25c, oz. $2.25, ¼ lb. $7.50.**



Early Snowball Cauliflower

Cucumber—Gurke

One ounce to fifty hills. One to two pounds to an acre.

CULTURE.—For growth of Cucumbers, hills are raised, standing five feet apart. Quite rich sandy soil is best. If necessary, enrich the hills with a mixture of sandy soil and strong rotted manure. For early use, plant in May; for pickling, plant in June or July. Eight or ten seeds should be allowed to each hill, as young plants are often destroyed by bugs.

Improved Long Green Cucumber

Improved Early White Spine, or Arlington—A selection from the White Spine, being more pointed at each end. The young fruits are usually crisp and tender, and are of very dark green color, so that the variety is considered by many to be the best. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

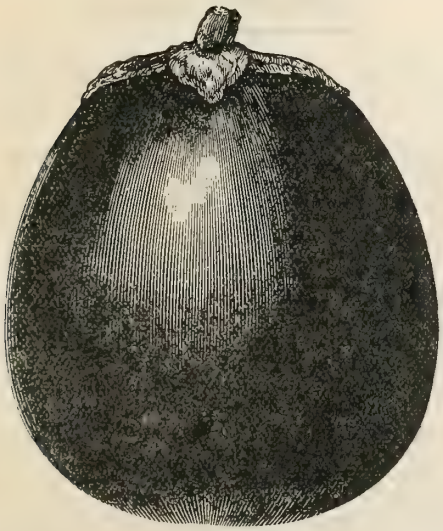
London Long Green—The standard late sort, quite crisp and of good size. It is not so early as the Spine, but is more desirable for a late crop. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

The Davis Perfect Cucumber—As a forcing cucumber, the Davis Perfect has no equal. Its excellent eating qualities, shape, color and productiveness place it without a rival. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Perfected Jersey Pickle—New and fine. The best pickle. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Gherkin, or Burr — Used only for pickling. **Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. $2.00.**

Early Fortune—Is of recent introduction and is considered the finest market cucumber of the White Spine type. The fruits measure 9 inches long and are slightly tapering. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**



Black Beauty Egg Plant

Mann's Favorite Cucumber

(SPECIALTY, see page 2.)

A selection of a medium early White Spine. In color it is a very deep green which holds for a long time. **Pkt. 15c, oz. 40c, ¼ lb. 75c, lb. $2.50.**

Cool and Crisp—A very early and prolific variety. Fruit is long and good shape; dark green in color. It shows knobs bearing spines more than most varieties. It is a good home variety. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Kirby Cucumber—Is the earliest of the White Spine type; fruit seven to eight inches long, cylindrical in shape. Color a beautiful dark green from stem to blossom end, which is retained longer than any variety we know of. Vigorous grower, enormous yielder, shipping quality unexcelled, and always commands the highest market price. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Egg Plant

One ounce will produce 1,000 plants.

Sow in March in hotbed, and transplant when two inches high into a second hotbed, or let them remain and thin out to four inches apart. When the weather becomes settled transplant into the open ground three feet apart each way. Good culture is quite as important as good seed; work the ground deep; make it rich with well-rotted manure, and hoe often.

Black Beauty Egg Plant—The New York Black Beauty combines in itself many characteristics which are very valuable in this vegetable. In the first place it is very early; in fact, the earliest good market variety. By this we mean it is the earliest variety that grows to a good size suitable for market purposes. **Pkt. 10c, oz. 50c, ¼ lb. $1.50, lb. $5.50.**

New York Improved Spineless—Best New Jersey gardener's selection. Oval shape, thornless, dark purple color and rich flavor. **Pkt. 10c, oz. 50c, ¼ lb. $1.50, lb. $5.00.**

Florida High Bush—Has proved a money-maker to Southern growers. It resists drought and wet weather to a wonderful degree on account of its strong, upright growth, the fruits being held well off the ground. Very vigorous and productive, bearing profusely its large purple fruits of fine shape and quality. An excellent shipper. Commission men report they reach market in the best condition and command high prices. **Pkt. 10c, oz. 50c, ¼ lb. $1.75, lb. $6.00.**

Sweet or Sugar Corn

One quart will plant 200 hills. Eight quarts for an acre.

If Corn is wanted by mail or express prepaid, add 5 cents per pint, 10 cents per quart, for charges.

Stowell's Evergreen

Premo—The earliest of all sweet corns, from 5 to 7 days earlier than Extra Early Adams. Remarkably hardy for a sweet corn, and can be planted earlier than other sorts. In quality and sweetness it is all that can be desired of an extra early corn.. **Pt. 20c, qt. 35c, pk. $2.00, bu. $7.00.**

Kendel's Early Giant—This is not a mere novelty, but is of real merit. Ears large, measuring 8 to 10 inches long, having 10 to 12 rows on each cob; kernels pure white, sweet and tender. **Pt. 20c, qt. 35c, pk. $2.00, bu. $7.00.**

Early Evergreen—The ears of this new corn grow 8 inches long; are mostly 14 to 16 rows. It ripens 10 to 12 days in advance of Stowell's Evergreen, and is equally as good for all purposes. **Pt. 20c, qt. 35c, pk. $1.75, bu. $6.00.**

White Evergreen—A pure white strain of the popular Stowell's Evergreen. The ears are very large and well filled from butt to tip with long, slender, pure white grains of the most delicious sweetness. It yields two or more ears to the stalk, and they remain in roasting-ear state as long as any corn grown. **Pt. 20c, qt. 35c, pk. $2.00, bu. $7.00.**

Mann's Early Sugar Corn

(SPECIALTY, see page 2.)

A big-eared medium early corn with the sweet flavor of the late varieties. **Pt. 30c, qt. 50c, pk. $2.25, bu. $8.00.**

Ideal Early Adams—A selection and improvement over the old Early Adams. Makes larger and handsomer ears and deeper grains. Ears measure from 10 to 14 inches in length, with 12 or more rows to the ear. Of excellent table quality, and a decided acquisition. **Pt. 20c, qt. 35c, pk. $1.75, bu. $6.00.**

Golden Bantam—Probably the very earliest variety grown. Very sweet; none better for the home garden for first early. **Pt. 20c, qt. 35c, pk. $2.00, bu. $7.00.**

De Lue's Golden Giant ("The Sweetest Corn on Earth")—If you want the best and only the best, all you have to do for early, medium and late sweet corns is to plant De Lue Golden Giant every week or ten days. Superior to the Golden Bantam sweet corn. **Pt. 20c, qt. 35c, pk. $2.25, bu. $8.00.**

Borden's Wonder Bantam (Sugar Corn)—Has the good qualities of the Golden Bantam, maturing about the same time. Stalks grow 6 feet in height, producing ears 8 to 10 inches long, with 8 rows of rich golden-colored kernels. **Pt. 20c, qt. 35c, pk. $2.25, bu. $8.00.**

Howling Mob—One of the very best early varieties. **Pt. 20c, qt. 35c, pk. $2.00, bu. $7.00.**

Black Mexican—Surpassed by none in quality and tenderness. When cooked is almost white. The ripe ear is black or blue-black. **Pt. 20c, qt. 35c, pk. $2.00, bu. $7.00.**

Country Gentleman—A new corn of merit and desirable for family use. The grains are irregular, compact and sweet. **Pt. 20c, qt. 35c, pk. $1.75, bu. $6.00.**

Mammoth Late—This produces the largest ear of any, a single ear sometimes weighing one or two pounds. It ripens a little later than the Evergreen, with larger cobs, the kernels being flatter, not horse-tooth shape. **Pt. 20c, qt. 35c, pk. $1.75, bu. $6.00.**

Stowell's Evergreen—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best. **Pt. 20c, qt. 35c, pk. $1.75, bu. $6.00.**

Kale or Borecole

An ounce of seed will sow about 200 feet of drill. Three pounds to an acre.

Dwarf German Greens (Siberian Kale)—Generally sown broadcast, but can be sown in drills a foot apart in August. **Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.**

Blue Curled Scotch—A distinctly blue close-curled Scotch strain in large demand in the Norfolk (Va.) section on account of its deep color and excellent shipping qualities. **Pkt. 5c, oz. 15c, ¼ lb. 40c, lb. $1.00.**

New Imperial, or Long Standing—Slow seeder; hardiest for gardeners, superior to all other sorts in vigorous habits; bright green color. **Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. $1.00.**

Emerald Isle Kale—This is really the handsomest kale that has ever come under our notice, and is entirely distinct from other strains. The closely curled, handsome leaves are most attractive. A fine exhibition plant of medium height. Very hardy. **Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.**

Plain, or Smooth—Fine for salads. **Oz. 10c, ¼ lb. 20c, lb. 50c.**

Endive—Endiven

CULTURE.—June or July, select a bed of good soil, drill fifteen inches apart, sow seed and cover lightly. The plants should not stand closer than twelve inches. Keep the earth to the stems, destroy weeds, and hoe liberally.

Extra Green Curled—It is the best. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

Broad-Leaved Batavian (Escarolle) — Used in soups and stews. Requires to be tied up for blanching. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

Kohl-Rabi (Turnip-Rooted Cabbage)

One ounce to 200 feet of drill. One and a half pounds to an acre.

CULTURE.—Sow in April in rows 18 inches apart, thinning out to 8 inches between plants.

Early White Vienna—This forms a bulb above ground, and its flavor mingles the peculiarities of the cabbage and turnip. **Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. $2.25.**

Earliest Purple Vienna—Same in every respect as the Earliest White Vienna, except in the outside color. **Pkt. 10c, oz. 25c, ¼ lb. 75c, lb. $2.25.**

Lettuce—Lattich Salat

One ounce will sow 100 square feet, or 120 feet of drill.

CULTURE.—For winter use sow in greenhouse or hotbed and cover seed very lightly. Transplant first three inches apart and then to eight inches. For outside use sow in rows, covering seed one-quarter inch.

Improved Big Boston Lettuce—Identical in color, shape and general appearance as the Boston Market Lettuce, but double in size. It is about one week later in maturing. **Pkt. 10c, oz. 20c, ¼ lb. 40c, lb. $1.25.**

Mann's Imperial Lettuce

(SPECIALTY, see page 3.)

A Winner for the Home Garden. One of the very best cabbage varieties for summer heading. **Pkt. 15c, oz. 35c, ¼ lb. $1.00, lb. $3.00.**

Grand Rapids Forcing—There is no better forcing variety among the curled-leaved sorts than the Grand Rapids, and it is quite as good for outdoor culture as other sorts. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

Big Boston Lettuce

Black-Seeded Simpson—One of the best curled varieties, withstanding the summer heat. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

Wayahead — Very early, sure-head and solid. Outer leaves light green, inner yellow. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.75.**

May King—A new German variety, fine for forcing and outdoors; heads of medium size, yellowish-green in color; very early and a fine variety. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.75.**

Brittle-Ice—Grows to a larger size, is of more pleasing appearance, and retains its crispness and mild flavor to a greater degree during the hot summer months than any other crisp-head variety. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.75.**

Hubbard Market—A large-heading variety, good for either forcing or sowing in open ground. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

New Golden Queen—Popular for forcing. **Pkt. 10c, oz. 20c, ¼ lb. 75c, lb. $2.50.**

California Cream Butter—Outside leaves are of medium green color, and inside is folded a solid head of rich, creamy-yellow color. It is considered by growers one of the best in cultivation. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

Salamander (B. S.)—Compact, tender heads resisting summer heat. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

New York Improved—This is also called **"Wonderful."** The heads are closely folded and grow to immense size. The inner portion is beautifully blanched and the outer leaves are a rich deep green. It is a foremost market grower's variety and very popular with many home gardeners. **Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. $2.25.**

Iceberg—A large, crisp lettuce, always tender, stands hot weather remarkably; give each head 14 inches in the row. The color is light green, lightly tinged with brown. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.75.**

Early Curled Simpson—Very early, largely grown in cold frames. **Pkt. 10c, oz. 20c, ¼ lb. 50c, lb. $1.75.**

Romaine or Cos Lettuce

New Trianon Cos, or Celery Lettuce—The finest of all the Cos sorts; leaves when bleached are stiff like celery stalks, and can be eaten in the same manner. **Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. $2.25.**

Mustard

The young and tender leaves of the Mustard are greatly relished as salads or when cooked like spinach. The seed should be sown in shallow drills as early as the ground can be prepared in spring, and the leaves cut when several inches long.

White — Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

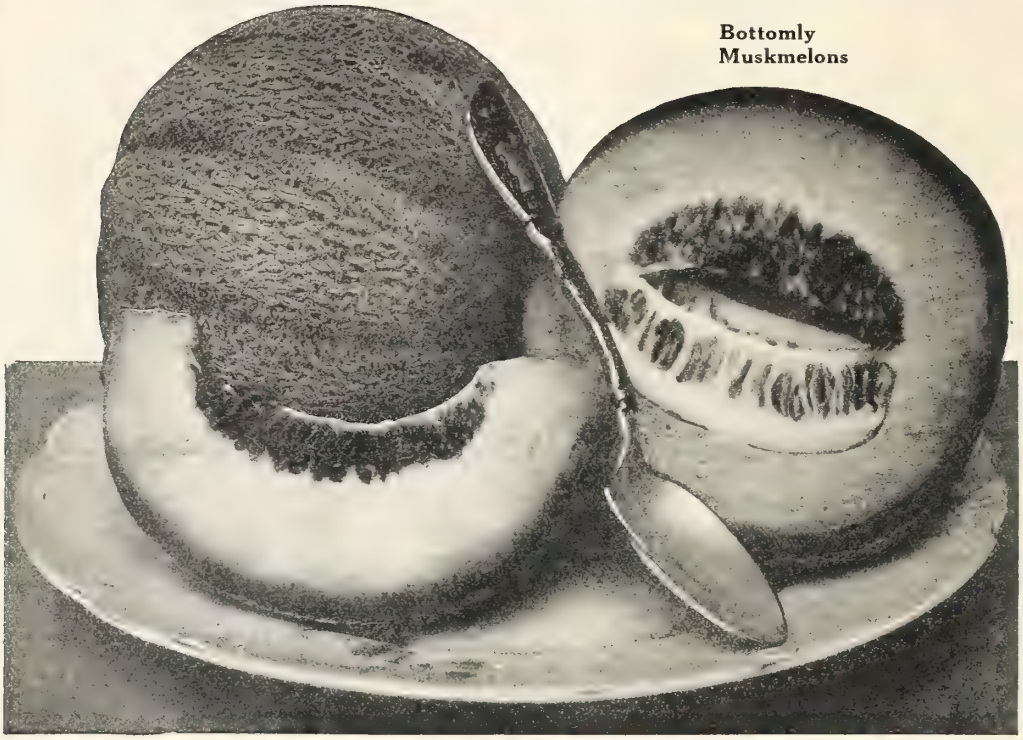
Giant Southern Curled — Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 75c.

Leek

Leek—Lauch

Broad London, or Large American Flag—Best American-grown seed. **Pkt. 10c, oz. 25c, ¼ lb. 60c, lb. $2.00.**

Cantaloupe or Muskmelon



Bottomly Muskmelons

One ounce will plant about fifty hills. Two or three pounds in hill per acre.

CULTURE.—Plant seed in hills 5 and 6 feet apart each way, 8 to 10 seeds per hill, after danger from frost is past. After plants are well up, thin to 4 to the hill; keep them well cultivated until the runners are so long they cannot be hoed or cultivated.

Mann's Surprise Cantaloupe

(SPECIALTY, see page 3.)

This melon is becoming more popular every year among the market gardeners. **Pkt. 15c, oz. 50c, ¼ lb. $1.75, lb. $3.25.**

Early Knight Cantaloupe

A splendid early Cantaloupe of superb quality, and at the same time makes an excellent market or shipping melon.

Its earliness, productiveness, uniformity in shape and appearance and fine table qualities easily place it in the first class, both for home use and market. It matures about a week earlier than the regular Rocky Ford, is larger in size, and makes a most attractive, salable melon. Thick, green flesh, shading to orange at center; well netted. **Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. $1.50.**

Sweet Air—It is the sweetest, finest flavored, juiciest and best melon ever offered. It is a little larger than the Rocky Ford, well netted, thick green flesh, small seed cavity. **Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. $1.75.**

Rocky Ford Netted Gem—Our stock is especially grown for us in the famous Rocky Ford melon district, and is a particularly valuable strain for shippers. It is uniform in size, thickly netted, distinctly ribbed, firm-fleshed and of most delicious flavor. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Bottomly—Is planted exclusively by the foremost cantaloupe growers of Anne Arundel County, in connection with the now famout Knight, maturing about 10 days later. The most exacting will be satisfied by the delicious quality while its appearance exhibits all the refinement of form, color and netting so necessary to a good melon. **Pkt. 10c, oz. 15c, ¼ lb. 60c, lb. $2.00.**

Tip Top—For splendid eating qualities this melon is certainly rightly named, for it is one of the most delicious flavored and finest table melons in existence. It grows to a large size, has thick orange flesh and is sweet, juicy and of the finest flavor even close to the rind. **Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. $1.50.**

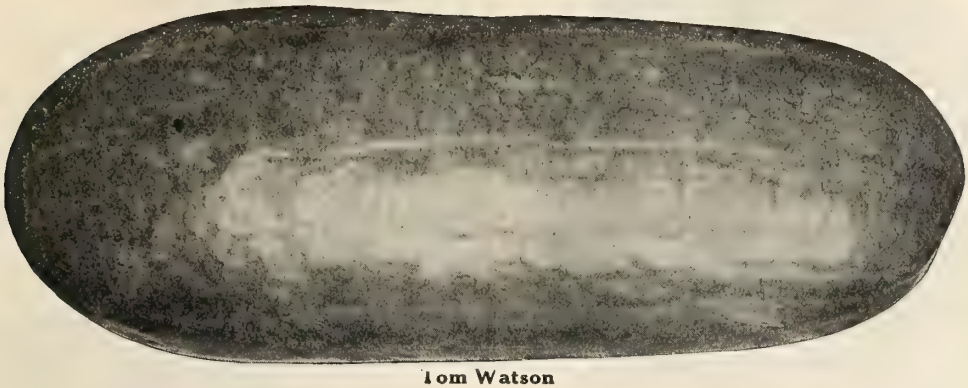
Pollock's No. 10-25 (Salmon Flesh)—This Musk Melon is considered the best of the salmon-fleshed Rocky Fords. Is the most reliable and best cropper, thriving on most any soil, producing ripe melons in about 70 days. The fruits are of great uniformity in size and shape, with well-developed gray netting, closely laced and covering the entire surface. **Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. $1.50.**

Fordhook Musk Melon—Very thick, orange-yellow flesh, small seed cavity, and comparatively few seeds. The flesh is solid and of very fine flavor, staying solid and firm after the melon has become quite yellow. **Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. $1.50.**

Delicious Gold Lined—Flesh thick, fine grained and sweet; color green, with a gold margin next to the seed cavity; slightly oval and heavily netted. A variety which every melon planter should include in his list. **Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. $2.00.**

Hearts of Gold—A splendid market or shipping variety; fruit round with tendency to heart-shape, slightly ribbed and covered with a fine netting; flesh very thick, deep salmon color and of high quality. **Pkt. 10c, oz. 15c, ¼ lb. 50c, lb. $1.75.**

Watermelon



Tom Watson

Those using larger quantities than one pound of Watermelon Seeds should write us for special prices.

CULTURE.—Plant in hills 6 or 8 feet apart in May. Select warm, light, dry ground, and in preparing the hills let them be dug out as broad and deep as the soil will admit; fill at least one-third full of the best decomposed stable manure, and mix thoroughly with the soil; fill up a little above the level of the ground.

Thurmond Gray Watermelon—Thurmond Gray has permanently taken its place among the shipping varieties of melons. It was a favorite with growers in some sections last season and will be grown extensively in the future. It grows to a large size, very productive, and is a good shipping sort. Sells to good advantage in the principal markets. The cutting quality of this melon is excellent. The deep, red flesh ripens close to the rind, the flesh being firm, will not break when sliced. Color of the rind is greenish gray. We consider the Thurmond Gray one of the best market sorts and recommend it to both market gardeners and large growers of watermelons. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Excel (New)—Large, long dark green melon; has a tough rind, therefore making it a fine melon for shipping. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Irish Grey—Long melon, light green rind; fine shipper. **Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.**

General Pershing—Long dark green melon; flesh firm and compact; very sweet; rind tough, making it a fine shipper. **Pkt. 5c, oz. 10c, ¼ lb. 35c, lb. $1.25.**

Florida Favorite—An oblong melon of fine flavor. **Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.**

Halbert Honey—The strong points in favor of this melon are its superb flavor, sweetness, tenderness, and fine table qualities. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Striped Gypsy, or Georgia Rattlesnake—A large, oblong melon. **Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.**

Kleckley's Sweet—This is one of the earliest melons. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Tom Watson, Ninety Days—Long, dark green; much better than the Kleckley Sweet, and longer; fine variety. (See illustration.) **Pkt. 5c, oz. 10c, ¼ lb. 25c, lb. 85c.**

Onions—Zwiebel

Onion Seeds should be sown as early as possible to work the ground, in drills one inch deep and twelve to sixteen inches apart, in rich soil, deeply dug and lightly rolled. Thin to one inch apart. When sowing for sets seeds must be put in very thick, at the rate of twenty pounds to the acre. The same patch may be used year after year for onions and never made too rich. To raise large onions, select a bed of rich soil, work it deeply.

GOOD ONION SEED IS OF THE GREATEST IMPORTANCE

Japanese (Ebenezer)—This new variety promises to be one of the best for the production of large onions for Fall and Winter market, yielding almost twice as many bushels per acre than any other set onion. Somewhat similar to Flat Danvers in color and shape but a trifle thicker and very much larger in circumference. They are very mild, excellent keepers, rapid growers, and very few go to seed. The appearance, size, quality and wonderful yields of this variety give it a prominent place among the most valuable sorts. **Pkt. 10c, oz. 35c, ¼ lb. $1.00, lb. $3.00.**

White Silver Skin, or Portugal—The leading sort of white onion. Skin is of a beautiful clear white color; flavor mild, and a most excellent keeper. **Pkt. 10c, oz. 35c, ¼ lb. $1.00, lb. $3.00.**

Red Wethersfield—The best-known and most widely used red variety. In shape it is flattish, but thick, with very firm flesh; is hard, and an excellent keeper, as well as a heavy cropper. The color is a bright, purplish-red. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.50.**

Yellow Globe Danvers—The popular yellow globe onion for market and shipping purposes; is almost ball shaped, but a trifle flattened at both ends. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.25.**

Southport Large White Globe—Pkt. 10c, oz. 35c, ¼ lb. $1.00, lb. $3.50.

Prizetaker—A superb variety where large size and superior keeping qualities are desired. Color a rich straw and flavor very mild and delicate. **Pkt. 10c, oz. 30c, ¼ lb. 90c, lb. $2.25.**

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

White Silver Skin Onions

Onion Sets

One quart to fifty feet of row; eight to ten bushels per acre, according to size of sets.

All onions attain full size and maturity for the same season from spring-sown seed, yet many people desire to plant out sets for earliest Onions for the table or to use green or for bunching.

Yellow Onion Sets—Grown from our select strain of Yellow Danvers. **Pt. 15c, qt. 25c, pk. $1.25.**

White Onion Sets—Grown from our select strain of White Portugal. **Pt. 15c, qt. 25c, pk. $1.50.**

The price per bushel is subject to change with the market. Write for quotations.

Okra or Gumbo

CULTURE.—Plant in May, in hills about 3 feet apart, 4 or 5 seeds per hill. When well established, thin out to 2 plants. One ounce to 100 feet of drill; 8 pounds per acre.

Perkins' Mammoth Long-Podded—A very large-podded variety; popular with canners and for home use. Quality very fine; plants extremely productive, of long, slender pods, which remain tender a long time. **Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 85c.**

White Velvet—Pods round, smooth, free from seams, very prolific. **Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 85c.**

Dwarf Green Prolific, or Density—A very dwarf, and prolific variety. Pods green, smooth and thickly set. **Pkt. 10c, oz. 15c, ¼ lb. 25c, lb. 85c.**

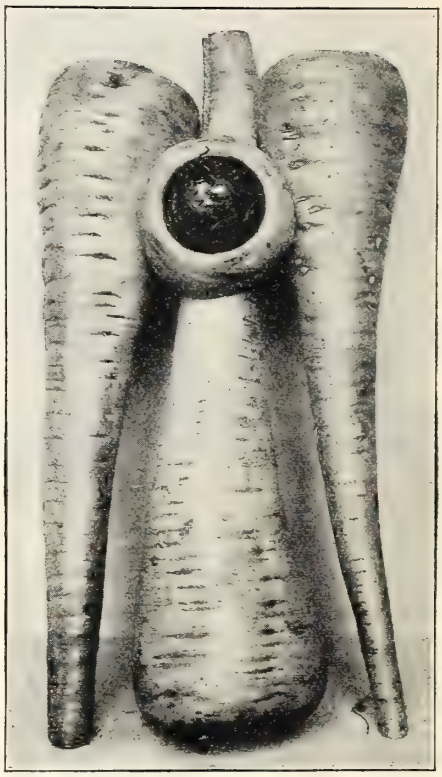
Double Curled Parsley

Parsnips—Pastinake

One ounce to 150 feet of drill.

Sow as early in the spring as the weather will permit, in drills 15 inches apart and ½ inch deep in rich, well-manured ground, well dug. Cultivate similar to carrots, and thin out to 6 inches apart. To keep well in the ground over winter, draw a little earth over the tops.

Hollow Crown, or Large Sugar—The best variety in cultivation for general use; roots white, smooth, of intermediate length, sugary of excellent flavor. **Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. 90c.**



Hollow Crown, or Large Sugar

Parsley—Petersilie

One ounce to 150 feet of drill.

Sow in rows one foot apart and one inch deep. The seed is slow to germinate and should be given the most favorable conditions. A deep, rich, loamy soil is required. For winter use a few plants placed in a box in the cellar will give a supply.

Extra-Dark Moss Curled—The large leaves are very heavily crimped and curled, being quite mosslike in appearance and of peculiarly rich, extra dark green coloring. Very productive, and most attractive as a garnish, both on account of this deep green coloring and fine mossy appearance. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. 85c.**

Fine Double Curled—Plants of dwarf, compact growth, and the young leaves have the edges heavily crimped, being of quite mosslike appearance. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Peppers

One ounce will produce about 2,000 plants.

CULTURE.—Sow in hotbed in April, and in warm, settled weather transplant outdoors 18 inches apart in rows 3 feet apart; or, when all danger of frost is past, sow in open ground and thin.

Crimson Giant—The largest and finest mild red pepper; double the size of Ruby King. **Pkt. 10c, oz. 60c, ¼ lb. $2.00, lb. $7.00.**

Neapolitan Large Early—Earliest of the large sweet peppers. Thick-meated and very productive. **Pkt. 10c, oz. 35c, ¼ lb. $1.00, lb. $3.50.**

Ruby King—Ideal pepper for filling and pepper hash. **Pkt. 10c, oz. 35c, ¼ lb. $1.25, lb. $4.00.**

Large Bell, or Bull Nose—Early, large, red mild. **Pkt. 10c, oz. 35c, ¼ lb. $1.00, lb. $3.50.**

Long Red Cayenne—Pkt. 10c, oz. 35c, ¼ lb. $1.00, lb. $3.50.

Chinese Giant—Pkt. 10c, oz. 60c, ¼ lb. $2.00, lb. $7.00.

Pimento Large Sweet—Pkt. 10c, oz. 35c, ¼ lb. $1.00, lb. $3.50.

Chinese Giant

Maine-Grown Seed Potatoes

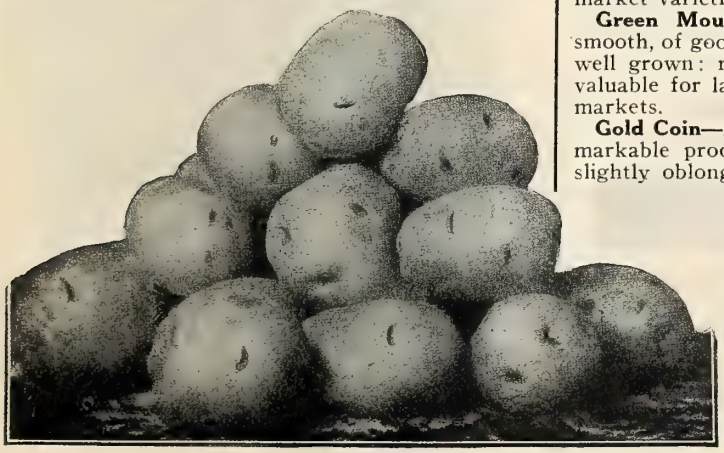
All of the Seed Potatoes we sell are grown in the State of Maine, where it is universally acknowledged the best seed potatoes are raised, and thousands of carloads are shipped every year from the counties of Holton and Aroostook alone. Farmers and truckers in the Middle and Southern States should renew their seed potatoes at least every two years, as by doing so they will realize the advantage of early maturity and productiveness.

Special prices will be given on application.

Ohio, or XX Early—This is one of the earliest potatoes grown; it will bear heavy manuring with commercial fertilizer; yields well, is free from blight; potatoes come to eatable size very early and eat well.

Early Rose—For a generation the standard potato of the whole country for earliest yield, thrift, beauty and table qualities, because it always succeeds well in any soil in any climate.

Spaulding Rose—Said to be the earliest potato now grown, and especially recommended for early market trade. Grown under favorable circumstances, they are ready for the table at 10 weeks from date of planting, and fully matured at 12 weeks. Medium sized, very smooth-skinned, shallow-eyed, and of fine texture; in color light pink.



Irish Cobblers

Irish Cobbler—One of the most reliable first early potatoes ever sent out. It ripens almost with the Early Ohio, and so uniform that every hill seems to ripen all at one time. The value of this feature will be at once apparent to the market gardener who always likes to dig the entire crop at one time and follow with a crop of something else from the same ground.

Bliss Red Triumph—This beautiful variety combines the productiveness of the Carman with the good qualities of the Early Rose. It is an extra-early variety. The tubers are of medium size, round and uniform in shape, eyes slightly depressed; color a beautiful red. Its great beauty, productiveness, and fine quality make it one of the best extra-early market varieties.

Green Mountain—White skin, flat, oval form, smooth, of good appearance; fine for the table when well grown; ripens slowly and is a good keeper; valuable for late crops; now taking the lead in all markets.

Gold Coin—A splendid Maine-crop variety of remarkable productiveness and finest table quality; slightly oblong form, light golden skin, flesh pure white, fine grained, cooks very dry.

Improved White McCormick—A very popular late sort; in fact, too well known for us to describe. Plant along in June or July, and you will receive a yield that will surprise you.

Sweet Potato Plants

Big Stems and Jersey Roots ready about April 1st. Big Stems and Jersey Plants ready about May 1st. Prices on request.

King of Mammoths

Pumpkin—Grosse-Kurbis

One pound will sow 200 to 300 hills.

CULTURE.—The common practice is to drop 2 or 3 seeds into every third or fourth hill in the cornfield; may be sown in hills, 8 feet apart each way, 4 plants to each hill.

Cashaw, or Crookneck—Large, light cream colored, solid and sweet, very fine-grained; splendid for table or feeding stock. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Large Cheese—A good cooking variety, cheese shape, creamy yellow color, flesh fine-grained, and one of the best for pies. **Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. 85c.**

Japanese Pie—Crooked-neck variety; extremely small seed cavity; nearly all solid meat; quality extra fine. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Large Connecticut Field—Hardiest of all pumpkins, good for pies and stock feeding. **Pkt. 5c, oz. 15c, ¼ pound 30c, lb. 75c.**

Small Sugar—Early, prolific and very sweet, orange color; fine keeper. **Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. 85c.**

King of Mammoths—The giant variety, grows to enormous size; deep yellow, glossy color. Splendid to grow for stock and exhibition purposes. **Pkt. 5c, oz. 15c, ¼ lb. 35c, lb. $1.25.**

Garden Peas

PLANT MANN'S SEEDS FOR BETTER RESULTS

We Do Not Pay Postage on Peas

INOCULATE THIS SEED WITH MULFORD CULTURE

Three quarts of seed to 100 yards of row. One and a half to two bushels to the acre.

CULTURE.—Sow as early as the ground can be worked, and again every ten days or two weeks in succession. They can be sown as late as the 20th of August for the last sowing, using Extra Earlies. Sow in rows about 4 feet apart and 1 inch apart in the row and 3 to 4 inches deep.

Extra-Early Alaska—The earliest blue pea. The dark green color of the pods makes it extremely desirable, as it can be carried long distances without losing color, which quality, combined with its earliness and uniformity of ripening, makes it a most desirable pea for market gardeners. Height 2 feet. **Pt. 25c, qt. 50c, pk. $2.25, bu. $8.50.**

Little Marvel—As regards Little Marvel peas, this variety we can recommend as being one of the very best short-vine peas introduced. The vines are about a foot high, very stocky, and the pods are large and well filled with large peas of excellent quality. We consider this variety far superior to American Wonder or Nott's Excelsior, and when they are better known they will be in great demand. **Pt. 25c, qt. 50c, pk. $3.00, bu. $11.00.**

Nott's Excelsior—One of the best early dwarf peas. It combines the good qualities of the American Wonder and Premium Gem Peas. **Pt. 25c, qt. 50c, pk. $3.00, bu. $11.00.**

Long-Podded Alaska—New, vigorous, handsome, long-podded, delicious flavored Alaska Pea. Bound to become extremely popular, for it has all the good qualities of famous Extra Early Alaska Pea, and in addition, it has a well-filled pod almost twice as long, which will fill the basket in one-half the time, and while it is not a distinctly sugar pea, yet it has a much sweeter flavor than the Alaska. It is an abundant yielder. **Pt. 25c, qt. 50c, pk. $2.25, bu. $9.00.**

Gradus, or Prosperity—Probably the best extra-early pea yet introduced. Only 2 or 3 days later than Alaska, and a wrinkled pea of excellent quality. **Pt. 25c, qt. 50c, pk. $3.00, bu. $11.00.**

Extra-Early Pilot—The pods and peas are nearly as large as those of Gradus, and are produced three days earlier. They can be planted much earlier than Gradus, and while not wrinkled, the peas are almost equal in flavor. Three feet high. **Pt. 25c, qt. 50c, pk. $3.25, bu. $11.25.**

Extra Early

PEAS—Continued

NOTICE.—In ordering Peas to be sent by mail, please add 8 cents per pint to pay postage. Prices subject to change without notice.

Premium Gem—This variety is nearly as early as the American Wonder, and the very productive vine is decidedly larger, growing to a height of from 15 to 18 inches. The pods are large and crowded with 6 to 8 very large peas of fine quality. **Pt. 25c, qt. 50c, pk. $3.00, bu. $10.00.**

Thomas Laxton—An extra-large-podded variety. The plant is a very hardy and strong grower, producing the large-size pods in abundance; quality is delicious and cannot be surpassed. Pods very dark green. **Pt. 25c, qt. 50c, pk. $3.00, bu. $10.00.**

American Wonder—This is a dwarf variety, and leads all others in point of earliness, growing about 10 inches high, and produces a profusion of good-sized, well-filled pods, with finest flavored peas. **Pt. 25c, qt. 50c, pk. $3.00, bu. $10.50.**

Horsford's Market Garden—A first-class wrinkled pea, second early; height 24 inches. Does not require stakes; is profitable sort for market gardeners; a single plant has been known to produce 150 pods. It is equally good for the home table. **Pt. 25c, qt. 50c, pk. $3.00, bu. $10.50.**

Carter's Daisy, or Dwarf Telephone—A most desirable sort on account of its size, beautiful shape and fine quality. Pods broad and of a pale green color. Height 20 inches. **Pt. 25c, qt. 50c, pk. $3.00, bu. $10.50.**

Early Bird—As early as Alaska and First and Best. As large as Thomas Laxton or Gradus. Dwarf, vigorous vines about 2 feet high, covered with immense well-filled pods. Perfectly hardy. Can be planted as early as any variety. **Pt. 25c, qt. 50c, pk. $3.00, bu. $11.00.**

Telephone

Early Bird Pea

Laxton Superb—A new dwarf Gradus. This is the largest podded of all the early dwarf varieties and is a new sort of decided merit. The vines are vigorous, growing about 16 inches high, and produce a large crop of good-sized pods, averaging from 9 to 10 peas to the pod. The peas are of exquisite flavor and mature early. **Pt. 25c, qt. 50c, pk. $3.00, bu. $11.00.**

Mann's Full Pod Pea

(SPECIALTY, see page 3.)

An extremely valuable variety, superior to Nott's Excelsior and American Wonder, especially suited to small home gardens. **Pt. 40c, qt. 75c, pk. $4.00, bu. $15.00.**

Telephone, Improved Stock—A luscious wrinkled-pea pod large size and peas excellent quality; an enormous cropper; grows 4 feet high. **Pt. 25c, qt. 50c, pk. $3.00, bu. $10.00.**

Radish—Rettig

One ounce will sow 100 feet of drill. Nine pounds will sow an acre.

CULTURE.—Select light, sandy soil, spade deeply and manure well. For early crop, sow in hotbeds in February or March; for main crop, sow at intervals from early spring until last of September in deep, rich soil. Broadcast sowing is allowable, but drilling is more professional; however, radishes do well by either method. Thin when they crowd, or the crop will be imperfect. They may be drawn after a few weeks' growth.

Long Bright Scarlet, White Tip—Matures in 25 days from planting, continuing crisp until full grown. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Long White Icicle—The popular long white radish, very early. The best long white radish. Skin is pure white; flesh crisp and tender, remaining so for a long time. It is very early, maturing in 25 to 30 days. Makes a fine show when bunched for market. Popular with market gardeners. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

RADISH—Continued

White Strasburg Radish

Crimson Giant—A large globe - shaped variety of recent introduction. Color is brilliant cardinal; flesh firm and tender; matures early; grows to a large size, and is always very crisp and tender. We consider this one of the very best second early forcing varieties. Highly recommended for outdoor planting. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Early Scarlet Turnip, White-Tipped—Early fine grain and flavor, round, with white tip. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Vick's Scarlet Globe—A very desirable variety for open ground or forcing. It is nearly olive-shaped; bright scarlet color, of fine quality. Matures very early and does not become unfit for use as soon as many extra-early sorts. (See illustration.) **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Early Scarlet Turnip—The old favorite turnip-shaped radish of medium size, quick to mature; a very desirable variety. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Early Long Scarlet—Short tops, long, deep scarlet roots, fine flavor. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

French Breakfast—A quick-growing, oval-shaped radish, light color and white tip. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Half-Long Deep Scarlet (Paris Beauty)—Color bright scarlet. Flesh pure white, crisp and juicy. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Large White Summer Turnip—Excellent for summer use. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Long White Vienna, or Lady Finger—This in shape resembles the long scarlet; color snow white. It is of rapid growth, and remarkably crisp, brittle and tender. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

White Strasburg — Large white radish, which stands summer heat; handsome shape and pure white color. (See illustration.) **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

New Chartier—The color at top is crimson, running into pink at middle, and thence downward to pure waxy white. It will attain a very large size before it becomes unfit for use. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Chinese Winter Rose—Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.

Round Black Spanish Winter—Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.

Long Black Spanish—Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.

California Mammoth White—Largest of all the winter radishes and extensively grown by the Chinese gardeners in California. Grows 10 to 12 inches long and from 2 to 3 inches in diameter. Pure white skin and flesh; solid, crisp and of good flavor. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

White Spanish Winter—Large size and a good keeper. Skin and flesh white. Solid, crisp and tender. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Vick's Scarlet Globe

Rhubarb or Pie Plant

Very familiarly known as the Pie Plant. The foot stalk is the portion that is used, and is the first vegetable of the season from the garden. Sow the seed early in the spring, in rows 1 foot apart, on rich ground. The second year after planting they can be removed, in autumn, to the permanent spot allotted to them. Plant the roots 2 feet apart each way, in ground that is well enriched, at least 2 feet deep. **Pkt. 10c, oz. 15c, ¼ lb. 50c.**

Victoria—Large-size Roots. Each 20c, doz. $2.00.

Herbs

	Pkt.	Oz.	¼ lb.
Dill	$.10	$.15	$.50
Fennel	.10	.15	.50
Lavender	.10	.30	1.00
Marjoram, Sweet	.10	.30	1.00
Sage	.10	.30	1.00
Summer Savory	.10	.25	.75
Thyme	.10	.30	1.00

Salsify or Oyster Plant

Mammoth Sandwich

Five to eight pounds to an acre.

CULTURE.— Sow early in spring in drills 15 inches apart; cover with fine soil 1½ inches deep, thin to 6 inches apart. As soil is strong and inclines to depth and lightness, it proportionately is adapted to Salsify. As the leaves resemble grass, be careful they are not mistaken in weeding. Salsify keeps over winter like parsnips.

Sandwich Island Mammoth—The most popular salsify in cultivation, and far superior to the old varieties in size, weight and productiveness. A strong grower, with large, long, white tapering roots; without tendency to branch. We have taken great care in the selection of our seed stock so as to produce not only good size, but the smoothest roots possible, qualities that will be appreciated both by market and private growers. (See illustration.) **Pkt. 10c, oz. 20c, ¼ lb. 60c, lb. $2.00.**

Squash—Kurbis

Bush sorts, 1 ounce for 50 hills. Running varieties, 3 to 4 pounds, in hills, for an acre.

CULTURE.—After the weather is settled and warm, plant in hills 5 to 8 feet apart. Rich soil is best, but if necessary, the hills alone may be enriched.

Early White Bush Scalloped, or Patty Pan—The best for early market use. Preferred for table. **Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. $1.00.**

Hubbard Squash

Summer Crookneck—Early, fine flavor; a desirable table sort. **Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. $1.00.**

Benning Bush—Earlier than the White Bush; color very light shade of green; bush habit; very productive and attractive appearance. The improvement of the Benning Bush Squash over the old sort is quite distinct, in that it is earlier and has a very beautiful light shade of green color, in place of the creamy white which the older sort has. (See illustration.) **Pkt. 5c, oz. 20c, ¼ lb. 50c, lb. $1.50.**

Boston Marrow—A splendid winter squash, of good keeping qualities. Flesh bright orange, fine grain and flavor unsurpassed. **Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. $1.00.**

True Hubbard—A desirable sort, suitable for winter use. **Pkt. 5c, oz. 15c, ¼ lb. 30c, lb. $1.00.**

Spinach—Spinat

One ounce for 100 feet of drill. Sow ten to twelve pounds to the acre.

New Zealand—Grows large and produces a large quantity of leaves during the summer. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. $1.00.**

Victoria—Dark green, crimped leaves. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 75c.**

True Bloomsdale Curly Savoy Spinach

New Long Season—The best for spring sowing, because it will stand longer before running to seed than any other variety. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 75c.**

Mann's Reselected Bloomsdale Savoy—This new strain has been developed in response to the urgent demand on the part of large spinach growers for an improvement in the quality of the regular commercial Bloomsdale grown in Holland. The plants are large, heavy, uniform and in every way especially reselected to match the ideal Bloomsdale Savoy type. **Pkg. 5c, oz. 10c, ¼ lb. 20c, lb. 40.**

New Spring—A valuable sort; its attractive dark green color, long-standing and hardy character make it desirable for both spring and late sowing. **Pkt. 5c, oz. 10c, ¼ lb. 30c, lb. 75c.**

Virginia Savoy (Blight Resistant) — This new spinach was originated by the Virginia Truck Experiment Station. It is the result of years of scientific work by the experiment station and has proved a great success the past three years. It is a decided improvement over Bloomsdale Savoy as its blightproof qualities and correct habit of growth makes it more valuable. **Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 40c**

SPECIAL PRICES IN LARGER QUANTITIES

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Tomato—Liebesapfel

Livingston's Beauty Tomato—The finest large-fruited, early purple variety. A decided favorite for home market or shipping, being early, hardy, a strong grower, productive, large, always smooth, perfect shape and excellent in quality. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.00.**

Norton—This is a wilt-resistant variety developed by the United States Department of Agriculture. Resembles Stone in every way as regards shape, color, size, season, etc. It resists wilt to a remarkable degree. **Pkt. 10c, oz. 40c, ¼ lb. $1.25, lb. $4.00.**

Ponderosa—It is the largest-fruited deep-colored tomato known; of very fine quality, solid, almost seedless and free from acid. **Pkt. 10c, oz. 40c, ¼ lb. $1.50, lb. $6.00.**

Mann's Beauty Tomato

(SPECIALTY, see page 3.)

The finest large-fruited, early-purple variety. A decided favorite for home market or shipping, being early, hardy, a strong grower. **Pkt. 15c, oz. 40c, ¼ lb. $1.25, lb. $4.00.**

Dwarf Stone—Vine dwarf, but vigorous and productive. While maturing with later sorts, the bright red fruit is of good color, exceedingly smooth, very solid and the largest of any of the dwarf varieties. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.50.**

"Bonny Best" Early Tomato—Enormously prolific, scarlet red, globe-shaped fruits, smooth and ripening evenly without cracking. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.50.**

New Stone—This variety has obtained great favor with canners and market gardeners everywhere. Its solidity and carrying qualities are remarkable. Its color is a desirable red; in shape perfectly smooth and thicker from stem to blossom end than most varieties. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.00.**

Matchless—One of the best main-crop tomatoes. The solidity, absence of core, size and color of the fruit, together with its freedom from rot, all unite in making this well worthy of the name of "Matchless." Fine both for private and market gardening and canning. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.00.**

Chalk's Early Jewel—An extremely early variety of brightest scarlet color, deep fruited, very hardy and solid, with few seeds and of excellent flavor. The popular early variety. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.00.**

Earliana—The earliest large tomato; is not only remarkable in earliness, but for its very large, uniform size, handsome shape, red color and wonderful productiveness. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.00.**

John Baer Extra Early—Scarlet fruited, hardy and productive. Shippers should try it. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.50.**

Marglobe Tomato

Early Wilt-Resistant Variety which originated from a cross between Marvel and Globe. This cross was made by an expert plant breeder of the United States Department of Agriculture, with the purpose in mind of developing an early type of wilt-resistant tomato. **Pkt. 25c, oz. 75c, ¼ lb. $3.00, lb. $10.00.**

Livingston Beauty Tomato

Greater Baltimore—An excellent main crop sort, producing large, solid smooth fruit of a brilliant red color. It ripens evenly to the stem and is entirely free from ridges. Used extensively by canners. **Pkt. 10c, oz. 40c, ¼ lb. $1.25, lb. $4.00.**

Acme—One of the earliest and best purple sorts of medium size, perfectly smooth, very solid and a great bearer; crimson color with pinkish cast. **Pkt. 10c, oz. 40c, ¼ lb. $1.00, lb. $3.00.**

Pear-Shaped Yellow Tomato—Handsome, bright, pear-shaped yellow fruit. **Pkt. 10c, oz. 40c, ¼ lb. $1.25.**

Plum-Shaped Yellow Tomato—Round and regular, bright yellow; used for pickling. **Pkt. 10c, oz. 40c, ¼ lb. $1.25.**

Turnip—Stockrube

Purple-Top White Globe—A standard white variety, with purple top, handsome globe-shaped and heavy cropper; leading turnip among truckers and gardeners. **Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.**

Extra-Early Purple-Top Milan—Earliest turnip in cultivation; fit for use a week sooner than others. Suitable for spring or fall planting. **Pkt. 10c, oz. 15c, ¼ lb. 35c, lb. $1.00.**

Yellow Aberdeen—Hardy, good keeping turnip; yellow flesh and very productive. **Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.**

Amber Globe—A good variety for general crop. Flesh solid and sweet; keeps well late in spring, grows large; fine for table or stock. **Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.**

Purple-Top Strap Leaf—A white, flat, strap-leaf turnip, with purple top; mild flavor and very popular. **Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.**

Improved American Purple-Top Rutabaga—Very hardy and productive; flesh yellow, solid and sweet. **Pkt. 5c, oz. 10c, ¼ lb. 20c, lb. 50c.**

MANN'S SUPERIOR FLOWER SEEDS

Our constant aim is to supply our customers with the very best domestic and imported strains obtainable. We spare no expense in our efforts to maintain the highest standard of quality. Our list contains those varieties which are most popular because of their beauty, usefulness, and ease of cultivation.

Annuals are those which attain full growth, bloom and die the same year, and are raised from seed exclusively.

Biennials attain full growth, bloom and die the second year from the planting of seed.

Perennials produce plants the first year, which with a few exceptions do not flower until the second year from planting of seed, after which they bloom every year and last several years.

The class to which each variety belongs is indicated as follows: **A.** for Annuals, **B.** for Biennials, **P.** for Perennials.

All Flower Seeds mailed free on receipt of price quoted. Cultural directions on each packet.

Vick's Branching Aster

ASTERS (VICK'S). A.—Mixed. Of all garden flowers from seed, there is none that gives more satisfaction than the Aster. There is an early, medium and late sort now of rare beauty, so that you can have flowers from June until frost. Our sorts are the best. **Pkt. 10c, oz. $1.00.**

ALYSSUM, SWEET (LITTLE GEM). A.—Of dwarf, compact habit, 4 to 6 inches in height. It begins to bloom when quite small, and the plants are a solid mass of white from spring to late in autumn. **Pkt. 10c, oz. 75c.**

AMARANTHUS (JOSEPH'S COAT). A.—Tricolor; a hardy annual with leaves of red and green; well known as "Joseph's Coat," the colors being especially brilliant if grown in rather poor soil. **Pkt. 10c, oz. 75c.**

ANTIRRHINUM (SNAPDRAGON). P.—This is a well-known and valuable plant, bearing long spikes of many colored flowers throughout the season. Fine for cutting as well as garden display. A hardy annual but sometimes lives over to the second year. Seed rather slow to sprout. **Pkt. 10c, oz. 75c.**

ASPARAGUS SPRENGERI (EMERALD FEATHER).—One of the best plants to grow in suspended baskets, window boxes, vases, etc.; for the greenhouse in winter and outside in the summer. **Pkt. 10c, oz. $3.00.**

ADONIS, AUTUMNALIS (FLOS ADONIS). A.—Small, crimson flowers, with dark center; globose. Height 1 foot. May to July. **Pkt. 10c, oz. 50c.**

ACROCLINIUM, ROSEUM. A.—A pretty annual "Everlasting," growing about 15 inches high, bearing lovely white or rosy-pink flowers, which, when cut in the bud state, can be dried and used in winter bouquets. A nice thing to grow in a mixed border aside from its use as an everlasting. Double Mixed. **Pkt. 10c, oz. 50c.**

AGERATUM (FLOSS FLOWER). A.—One of the best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. The various blue varieties are without doubt the most satisfactory bedding plants of this color for our trying climate. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May. A sowing in September will give plants to bloom all winter. Dwarf Mixed. **Pkt. 10c, oz. 50c.**

BALLOON VINE.—Remarkable for its inflated membraneous capsules containing the seed. It is sometimes called "Love-in-a-Puff." A rapid and graceful climber. Flowers white. Tender annual; 6 feet high. **Pkt. 10c.**

BALSAM (LADY'S SLIPPER, or TOUCH-ME-NOT). A.—Our Cameillia-flowered strain produces the finest double blossoms, and is quite a revelation compared with the old varieties. Sow in rich soil for the finest blooms. **Pkt. 10c, oz. 75c.**

BALSAM APPLE (MOMORDICA BALSAMINA). A.—A rapid-growing vine producing apple-shaped fruits. **Pkt. 10c, oz. 50c.**

BRACHYCOME (SWAN RIVER DAISY). A.—Free-flowering, dwarf-growing annuals; covered during the greater part of the summer with a profusion of pretty blue or white flowers, suitable for edgings, small beds or pot culture; 9 inches. **Pkt. 10c, oz. $3.00.**

CALLIOPSIS, or COREOPSIS.—Very showy border plants, producing in great profusion and for a long time flowers which are bright yellow and rich brown, either self-colored or with these colors and red contrasted. **Pkt. 10c, oz. 35c.**

CANARY BIRD FLOWER.—A beautiful climber with curiously-shaped little canary-colored blossoms. Will blossom freely from July until killed by frost. Tender annual. **Pkt. 10c.**

CANDYTUFT. A.—Showy, branching plants, 6 to 18 inches high. Indispensable for cutting and very effective in beds or masses. If sown in spring will blossom from July to September, or in the fall will blossom from May to July. Hardy annual. Fine Mixed. **Pkt. 10c, oz. 40c.**

CARNATION, MARGUERITE. P.—The plants of this wonderfully fine strain may be made to flower in 4 months. The flowers are large, double and very fragrant, and appear in very attractive shades of color. One of the best "pinks" in cultivation. **Pkt. 10c, oz. $1.25.**

CALENDULA (POT MARIGOLD). A.—This is the "Marygold" of Shakespeare's time; one of the best and showiest free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders, particularly bright in late fall, continuing to bloom from early summer until killed by frost; valuable also for pot culture; blooming freely in winter and early spring. **Pkt. 10c, oz. 25c.**

CENTAUREA (BACHELOR'S BUTTONS). A.—Popular Everlastings, bearing hundreds of cloverlike heads of different colors. Useful also for bedding and borders. **Pkt. 10c, oz. 50c.**

CASTOR BEAN, or RICINUS. A.—Tall, majestic plants for lawns, with leaves of glossy green, brown or bronzed metallic hue and long spikes of scarlet, or of green, prickly fruit. Of very quick growth in rich soil. Tender annual. 6 to 15 feet high. **Pkt. 10c, oz. 15c.**

COLEUS. P.—The most popular of all foliage plants. Easily grown from seed, but must be started in a box in the house or hotbed, as the seed is very fine and when sown is scarcely covered, but must be kept moist. Tender annual. **Pkt. 10c.**

COCKSCOMB DWARF MIXED. A.—Showy dwarf growing plants bearing large velvety combs. If the combs are cut before frost they may be dried and used for winter decoration. **Pkt. 10c.**

Cosmos (see Cover)

COSMOS. A.—Of all fall flowers there is none that has become so popular as Cosmos. Sow the seed in March, April and May, and will bloom in September. Does best in light, rich soil, in sunny places; grows about 7 feet high. Flowers are borne on long stems in clusters of pink, dark pink and white colors. Fine for house and church decorations. **Pkt. 10c, oz. 50c.**

CONVOLVULUS MINOR (DWARF MORNING GLORY). A.—Dwarf plants of trailing, branching habit, each covering a space about 2 feet in diameter. At midday they are completely covered with a mass of pure white and brilliant many-colored blossoms, which remain open in clear weather till evening. Half-hardy annual; 1 foot high. Mixed. **Pkt. 10c, oz. 25c.**

CYPRESS VINE. A.—A most beautiful climber with delicate dark green feather foliage and an abundance of bright star-shaped rose, scarlet or white blossoms, which contrast most effectively with the graceful foliage. Tender annual; about 15 feet high. Mixed. **Pkt. 10c, oz. 60c.**

CATCHFLY, SILENE. A.—The varieties offered below are very pretty hardy perennials, well adapted for the rockery or the front of the hardy border. Glistening white flowers in July and August. **Pkt. 10c, oz. 50c.**

CLEMATIS, PANICULATA (JAPANESE VIRGIN'S BOWER). P.—Perennial climber; fine for arbors, verandas, etc. The beautiful autumn-flowering variety, admired for its fragrant, white star-shaped flowers. **Pkt. 10c.**

COLUMBINE, AQUILEGIA. P.—The Aquilegias are fine, free-flowering, hardy border plants. Seed may be planted in the open ground early in the spring, and will, in the case of single varieties, bloom same season. Best results are obtained by planting in August, when they will come up early in the spring, making vigorous plants, blooming during late spring and early summer. **Pkt. 10c, oz. 75c.**

SHASTA DAISIES (CHRYSANTHEMUM LEUCANTHEMUM). P.—A splendid hardy perennial variety with flowers rarely less than 5 inches across, of the purest glistening white, with broad overlapping petals, and borne on long strong stems; a beautiful cut flower, remaining in good condition a week or more. **Pkt. 10c, oz. 75c.**

CHRYSANTHEMUMS, CORONARIUM, DOUBLE MIXED. P.—Yellow, white, etc. **Pkt. 10c, oz. 25c.**

CLARKIA, PULCHELLA. A.—This pretty and easily-grown annual has been much improved in recent years. They do well either in sun or shade, growing 2 to 2½ feet high, with leafy racemes of double flowers, which all open in water when cut. **Pkt. 10c, oz. 75c.**

DIANTHUS, PINKS. B.—Double Japan Mixed (Chinensis Laciniatus).—The flowers are rich in hue; very double, deep-fringed petals. Colors vary from white to rose, lilac, carmine, crimson, scarlet, purple, brown and almost black, spotted and striped. Mixed. **Pkt. 10c, oz. 50c.**

DATURA, CORNUCOPIA (TRUMPET FLOWER). A.—A grand annual plant. The flowers average 8 inches long by 5 inches across; French white inside, purple outside; delightfully fragrant. Started early, will flower from early summer until fall. **Pkt. 10c, oz. 75c.**

DIGITALIS (FOXGLOVE). P.—Grows to the height of 3 or 4 feet, affording dense spikes of brilliantly-colored flowers, which are terminal and half as long as the height of plant. Colors white, lavender and rose. A valuable flower in every perennial garden; does not usually blossom until the second year. Hardy biennials or perennials. **Pkt. 10c, oz. 75c.**

DAISY, ENGLISH (BELLIS). P.—A favorite perennial, which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Easily raised from seed, which may be sown any time from spring until August. For best results, new plants should be raised from seed each year. The following are the finest double-flowering kinds, selected after careful test. **Pkt. 10c, oz. 75c.**

ECHINOCYSTIS (WILD CUCUMBER VINE), LOBATA.—One of the quickest growing annual vines we know of; splendid for covering trellises, old trees, fences, etc. Clean, bright green foliage and sprays of white flowers in July and August. **Pkt. 10c, oz. 25c.**

EUPHORBIA (SNOW-ON-THE-MOUNTAIN). A.—Strong-growing annuals, suitable for beds of tall-growing plants, or mixed borders; the flowers are inconspicuous; the foliage, however, is exceedingly ornamental. Attractive foliage; veined and margined with white; 2 feet. **Pkt. 10c, oz. 75c.**

FOUR O'CLOCK (MARVEL OF PERU). A.—The plants are large, and each needs 3 or 4 feet of space each way for its best development. The flowers are funnel-shaped, white, red, yellow or striped with these colors and open about 4 o'clock in the afternoon. **Pkt. 10c, oz. 25c.**

FORGET-ME-NOT (MYOSOTIS). P.—A favorite old-fashioned flower, bearing in profusion clusters of blue blossoms. It thrives well in the shade or open border. Hardy perennial. **Pkt. 10c, oz. 50c.**

GYPSOPHILA (BABY'S BREATH). A.—Pretty, free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut-flowers. **Pkt. 10c, oz. 25c.**

Carnation (see Cover)

GOURD (CUCURBITA). A.—A tribe of climbers with curiously shaped and colored fruit. Being of rapid growth, they are fine to cover old fences, trellises, stumps, etc. Tender annual; 10 to 20 feet high. **Pkt. 10c, oz. 25c.**

GODETIA. A.—This beautiful hardy annual deserves more extensive cultivation. The plants bloom profusely and are splendid for bedding. We also recommend that those with greenhouse facilities try growing these as a pot-plant for winter decoration. We offer the single-flowering sorts, which grow about 1 foot high, and the double varieties, which attain the height of 2 feet. **Pkt. 10c, oz. 75c.**

HELIOTROPE. P.—Highly valued for the fragrance of their flowers and duration of bloom. Half-hardy perennial, blooming the first year from seed. Dark varieties. Mixed. **Pkt. 15c, oz. $2.50.**

HOLLYHOCK. P.—The most majestic of hardy plants of the garden. When planted in rows in the garden or among shrubbery the effect is beautiful. **Pkt. 10c, oz. $1.00.**

HYACINTH BEAN (DOLICHOS). A.—A free-growing climber with heavy foliage and large sprays of white and purple flowers. **Pkt. 10c, oz. 25c.**

LOBELIA. P.—This dwarf and trailing variety is fine for bedding, borders or hanging baskets; blooms profusely from June until November. **Pkt. 10c, oz. $1.85.**

LARKSPUR (DELPHINIUM). A.—An old-fashioned very choice, especially hardy annual, which increases in beauty each year. Vast improvements have been made by careful selection and attentive culture in size and color of the blossoms. **Pkt. 10c, oz. $3.00.**

LYCHNIS. P.—Handsome hardy perennial plants of easy culture, for massing in beds or borders, blooming first year from seed if sown early. **Pkt. 10c, oz. $4.00.**

MARIGOLD. A.—One more of the old-time favorites—an annual of easy culture, extremely effective, suited well for bedding in masses. **Pkt. 10c, oz. 50c.**

MIGNONETTE. A.—Few ladies would think that a garden was complete without Mignonette. For fragrance and beauty there are few flowers that are as universally admired. **Pkt. 10c, oz. 20c.**

MOON FLOWER (IPOMEA GRANDIFLORA). A.—At night and dark days the plants are covered with an abundance of large, pure white, fragrant flowers, 5 to 6 inches in diameter. It grows very rapidly, and will cover a very large surface. **Pkt. 10c, oz. 50c.**

Marigold

Double Hollyhock

MOURNING BRIDE (PIN-CUSHION FLOWER). A.—These beautiful hardy annuals are in great demand. They grow about 2½ feet high and bloom from early in July without interruption until cut down by the frost. As a flower for cutting they are very popular. The various shades are extremely charming but are equally well adapted for borders or beds, where they display themselves very effectively. Seeds should be sown any time in the spring after danger of frost is past. **Pkt. 10c, oz. 75c.**

NIGELLA ("LOVE IN A MIST"). A.—An unusual and attractive flower. Will stand hot weather and drought. **Pkt. 10c, oz. 30c.**

NASTURTIUM.—For easy culture and general satisfaction there is nothing that excels the Nasturtium. Brilliant in color and of great variety. A bed of these fine blossoms adds tone and elegance to any flower garden.

NASTURTIUM, TALL SORTS. A.—Mixed. **Pkt. 10c, oz. 15c, ¼ lb. 40c.**

NASTURTIUM, DWARF SORTS. A.—Mixed. **Pkt. 10c, oz. 15c, ¼ lb. 40c.**

PHLOX DRUMMONDI. A.—Very hardy annuals, unequaled in the magnificent display of their many and brilliantly colored flowers. They will grow even in poor soil, but in order to develop to their highest perfection must have rich soil and must be given room. Choice Mixed. **Pkt. 10c, oz. $1.25.**

PANSIES. A. B.—Our selection of this well-known flower is, we believe, the best that is offered anywhere for size, variety and beauty, and have no equal. To grow pansies and secure the largest and best flowers, the seed should be sown in January and February, in the greenhouse or in boxes in the house. **Pkt. 10c, oz. $1.50.**

PORTULACA. A.—There are few flowers in cultivation that make such a dazzling display of color in the bright sunshine as a bed of portulacas. They are in bloom from about the first of July until killed by frost in autumn. Fine Mixed. **Pkt. 10c, oz. 70c.**

PASSION FLOWER. P.—Handsome, rapid-growing perennial climber for greenhouse decoration or sunny positions in the open ground in summer. **Pkt. 10c, oz. $4.00.**

PRIMULA (PRIMROSE). P.—The charming and beautiful Chinese Fringed Primroses and Obconica varieties are among the most important winter-blooming pot-plants. The seed we offer is of the highest merit, and has, as usual, been saved from the best strains of English and Continental growth. **Pkt. 10c.**

POPPY (PAPAVER), CARNATION FLOWERED. A.—Well-known hardy annuals and perennials, flowering in great profusion throughout the summer. Sow early in the spring where the flowers are to bloom, and cover lightly. **Pkt. 10c, oz. 20c.**

POPPY (IMPROVED SHIRLEY). A.—Mixed. **Pkt. 10c, oz. 25c.**

PETUNIAS. A.—For outdoor decoration, porch or window boxes, few plants equal the Petunia in effectiveness. The Single Bedding kinds can be sown out of doors in May. **Pkt. 10c, oz. 75c.**

ORIENTAL POPPIES, MIXED. P.—These are always popular in any perennial bed. The seeds should be sown in early spring in the open ground. **Pkg. 10c, oz. $2.00.**

SALPIGLOSSIS, LARGE - FLOWERING (PAINTED TONGUE). A.—These are one of the very finest annuals and are of the easiest culture, succeeding in any good ordinary soil and in a sunny position. The plants grow from 24 to 30 inches high, and produce freely from mid-summer until frost their attractive Gloxina-like blossoms in a very large and unusual range of colors. **Pkt. 10c, oz. $1.00.**

SCARLET RUNNER. A.—The well-known rapid-growing annual climber, with bright red flowers from July to September. Fruit is a most delicious vegetable; 8 feet. **Pkt. 10c, oz. 15c.**

STOCKS, CUT-AND-COME-AGAIN. A.—Splendid perpetual-blooming class; sown in March or April they begin flowering in July, continuing till frost, and are especially valuable during September and October, when other flowers are scarce; they throw out numerous side branches, all bearing very double, fragrant flowers. **Pkt. 10c, oz .$1.25.**

SUNFLOWER (LARGE RUSSIAN). A.—For planting and bird feed. **Lb. 15c.**

SWEET WILLIAM. P.—A very beautiful class of easily grown and very hardy plants of extreme richness and diversity of colors, deliciously sweet-scented. Nothing surpasses this old rugged favorite for clumps or borders. Hardy perennials; about 1 foot. **Pkt. 10c, oz. 50c.**

SNAPDRAGON, ANTIRRHINUM. P.—This is a well-known and valuable plant, bearing long spikes of many colored flowers throughout the season. Fine for cutting as well as garden display. A hardy annual but sometimes lives over to the second year. Seed rather slow to sprout. **Pkt. 10c, oz. 75c.**

Dahlia-Flowered Zinnia

Giant Spencer Sweet Peas

SPENCER'S CHOICE COLORS

Austin Frederick, Giant Lavender.
Blanche Ferry, Pink and White.
Commander Godsall, Violet Blue.
Constance Hinton, Giant White.
Crimson King, Deep Red.
Dobbies Cream, Deep Primrose.
Elfridge Pearson, Giant Shell Pink.
Fiery Cross, Bright Red.
King Edward, Deep Crimson.
Margaret Atlee, Rosy Salmon.
Picture, Deep Pink.
Royal Scott, Scarlet.

All of the Above, oz. 25c, lb. $3.00.

Superb Spencer Sweet Peas

SPENCER'S MIXED COLORS—Pkt. 10c, oz. 25c, lb. $3.00.

ECKFORD'S MIXED SWEET PEAS.—Pkt. 10c, oz. 15c, ¼ lb. 30c, lb. $1.00.

SALVIA SPLENDENS (SCARLET SAGE). A.—Large, brilliant scarlet flowers are in these plants afforded a rich dark green background of dense foliage. This variety is most generally used in parks and on extensive lawns. **Pkt. 10c, oz. $2.00.**

THUNBERGIA (BLACK-EYED SUSAN). A.—Beautiful, rapid-growing annual climbers, preferring a warm, sunny situation; used extensively for hanging-baskets, vases, low fences, etc. Very pretty flowers in buff, white, orange, etc., with dark eyes; 4 feet. Mixed Colors. **Pkt. 10c, oz. $1.00.**

VERBENA. A.—Flower produces a mass of flowers from spring to late fall. Our strain is as fine as the world produces. Large flowers and free blooming. **Pkt. 10c, oz. $1.25.**

VINCA (PERIWINKLE). A.—These are very bright annuals with dark glossy green leaves and large showy flowers, and should be included in every garden. The compact plants grow 15 inches tall. They are excellent for beds, borders, and window boxes. The flowers measure 1½ inches across. Blooms during summer and fall. **Pkg. 10c, oz. 75c.**

WALLFLOWER. P.—Well known, very fragrant garden plant, blooming early in the spring, with large, conspicuous spikes of beautiful flowers; prized for bouquets. **Pkt. 10c, oz. 25c.**

ZINNIAS, GIANT. A.—One of the most brilliant annuals; a general favorite, its splendid double flowers rivaling in beauty, size and form moderate-sized dahlias. Choice Mixed. **Pkt. 10c, oz. $1.50.**

DOUBLE DAHLIA-FLOWERED ZINNIAS. A.—This type, the latest development in Zinnias, bears flowers of mammoth size and in form like a perfect decorative Dahlia. As the result of painstaking care and selection the size, form and coloring has been much improved and we now offer Finest Mixed, containing a wonderful range of beautiful colors. **Pkt. 10c, oz. $2.00.**

BULBS FOR SPRING PLANTING

CHOICE CANNAS

THE PRESIDENT.—This is described best when said to combine all the good qualities of Fire Bird with none of its faults. Blooms are pure crimson and foliage deep green. Height 4 to 5 feet. **Each 15c, doz. $1.50.**

KING HUMBERT.—The most popular of cannas. Gigantic orange scarlet trusses with red markings. Foliage deep coppery bronze; 5 feet tall. **Each 10c, doz. $1.00.**

LOUISIANA.—Strong, vigorous, vivid scarlet flowers, the largest and finest of their color; 7 feet tall. **Each 10c, doz. $1.00.**

CALADIUM or ELEPHANT'S EARS

MAMMOTH BULBS.—Each 25c.
LARGE BULBS.—Each 15c.

TUBEROSES

REGULAR GRADE.—Doz. 50c.
MADEIRA VINES—Each 10c, doz. $1.00.

GLADIOLI

NEW AND CHOICE NAMED VARIETIES.—The Gladiolus is one of the most decorative plants in the garden, and as a cut flower lends itself readily to any arrangement. If the spikes are cut when the lowest flower is in bloom, the others will open in succession and remain fresh a week or ten days.

America

GOLDEN MEASURE.—Pure golden yellow; very large flowers of good substnace; robust grower and considered the best yellow on the market; a super-glad. **Doz. $1.00.**

CRIMSON GLOW.—Glowing velvety crimson, shaded deeper in the center; tall strong grower, flowers well placed; considered the best in its color. **Doz. 75c.**

MRS. DR. NORTON.—Silvery white base tinged with pink, deepening towards the edges of the petals, creamy blotches in throat on lower petals; tall, vigorous grower, splendid cut flower. **Doz. $1.00.**

MRS. FRANCIS KING.—Flame red shaded salmon towards throat; very tall strong spike; an old favorite florist variety. **Doz. $1.00.**

MRS. FRANK PENDLETON.—Deep rose pink shading to pale pink in throat, large bright crimson blotches on lower petals, giving it a striking appearance; tall vigorous grower, extra cut flower. **Doz. 50c.**

PURPLE GLORY, RUFFLED.—Deepest velvety maroon with almost black blotches; very large tall plant; a real giant in all respects. **Doz. $1.50.**

JOE COLEMAN.—Very bright red, carmine blotch; very attractive, ruffled flowers, many open at a time; strong grower and good propagator. **Doz. $1.00.**

MANN'S RAINBOW MIXTURE.—Contains only finest named sorts of our list. This gives a wide range of color and markings. We mix them ourselves and feel convinced they will please the most critical buyer. **Doz. 50c.**

Mrs. I. De. Ver Warner

CHOICE SELECTED DAHLIAS

KALIF.—A handsome variety producing giant flowers on long stiff stems. Color pure scarlet. **Each 75c.**

J. H. JACKSON.—Finest black dahlia in existence. Color deep blackest maroon. Gigantic size. **Each 20c, doz. $2.00.**

WHITE SWAN.—Pure white, the standard commercial Ball Dahlia. A strong grower and free bloomer. **Each 25c, doz. $2.50.**

DELICE.—Large flower with long stems, very fine for cutting, color clear bright rose-pink. **Each 25c, doz. $2.50.**

SYLVIA.—Deep pink with white center. A showy variety. Fine for cutting. **Each 25c, doz. $2.50.**

MINA BURGLE.—Light red. **Each 25c, doz. $2.50.**
MEPHISTOPHELES.—Ruby Red. **Each 50c.**
S. D. BOSS.—Dark red. **Each 50c.**
SNOWDRIFT.—Snow White. **Each 50c.**

MRS. I. DE. VER WARNER.—Immense flowers on long stems, are of perfect form and of a lovely mauve pink color; early and free bloomer. **Each 75c.**

MIXED DAHLIAS.—A splendid mixture of many fine varieties. **Each 10c, doz. $1.00.**

VOLCK.—A refined oil emulsion that may be used on the most tender foliage with perfect safety. Effectually controls mealy bug, white fly, red spider, aphids, thrips, etc. Does not discolor foliage, but rather imparts a bright glossy appearance. One gallon makes from 32 to 100 gallons of spray solution. **½ pt. 50c, pt. 75c, qt. $4.00, gal. $3.00, 5 gals. $12.00.**

WHAT A DIFFERENCE A FEW OF THESE MAGIC TABLETS MAKE!

Picture a plant—struggling gallantly but vainly—in a feeble, fruitless search to find food in soil that contains none. Faded, drooping, flowerless, you call it a failure. But is it?

A few of the magic plant food tablets called Plantabbs would have made this pathetic little plant a big success!

We now sell and recommend Plantabbs. Odorless, clean, easy to use, they're Trojans for work. A forkful of stable manure won't do as much for your plants and flowers as one of these concentrated, odorless white tablets! As they dissolve in water almost instantly, they make a wonderful liquid fertilizer, and when used in this way make the most worn-out soil rich and fertile **overnight.**

PLANTABBS are so perfectly balanced, so chuck full of growth producing, health giving, energizing plant food, that many florists and professional growers purchase them in quantities for their own use.

A season's supply for your garden costs only $3.50; other sizes sufficient for potted plants, sell for $1.00, 50c, and 25c per package. Include in your next order.

Guaranteed to improve your plants

WALKER'S EXCELSIOR PLANT FOOD

The Essence of Plant-Life for House Plants and Flower Gardens

WALKER'S EXCELSIOR PLANT FOOD assists in retaining moisture. Will mature plants from two to three weeks earlier. Where the plant food has been used, cutworms and wireworms cannot live.

The 12-page booklet, the Window Garden—How to Make It a Success," is furnished FREE with every can of the food. Sold in powdered form and is used dry or by dissolving in water.

5-ounce size, making	6 gallons	$ .25
12-ounce size, making	15 gallons	.40
5-pound size, making	100 gallons	1.50

STIM-U-PLANT

An All-the-Year Fertilizer for Garden and House Plants

Growers of fine flowers, shrubs and vegetables for the best markets and for exhibition, fertilize and stimulate them frequently, a little at a time. An excellent fertilizer for the purpose is STIM-U-PLANT, an odorless, highly concentrated plant-food, in tablet form, with guaranteed chemical analysis of 11 per cent Nitrogen, 12 per cent Phosphoric Acid, 15 per cent Potash. The proportions **25c pkg., 75c pkg., $3.50 1,000 tablets.**

Legume crops, properly inoculated with nitrogen-fixing bacteria, add both humus and nitrogen to the soil and should be included in every crop-rotation program.

Inoculate all your legume crops with **MULFORD CULTURE CONCENTRATES.** Especially recommended because they contain enormous numbers of active, vigorous nitrogen-fixing bacteria, grown from pure, tested strains.

MULFORD CULTURE CONCENTRATES are prepared with the utmost scientific care and skill. Economical. Easy to use. The sealed bottle insures purity.

They offer you the most economical and satisfactory method of adding nitrogen to your soil.

Always specify on your order what crop you want to inoculate.

For Small Seeds

10, 2½, 1, and ½ bushel sizes.

Alfalfa, Burr Clover, Sweet Clover, Yellow Clover, Sainfoin, Lespedeza

Crimson Clover, Red Clover, Alsike Clover, Berseem Clover, White Clover, Mammoth Clover, Beggarweed

10 bushel size	$8.00
2½ bushel size	2.25
1 bushel size	1.00
½ bushel size	.60

For Large Seeds

20, 5, 2, and 1 bushel sizes

Canada, Field Peas, Garden Peas, Sweet Peas, Perennial Peas, Lupins, Vetch

Cow Peas, Velvet Beans, Peanuts, Soy Beans, Mung Beans, Garden Beans, Lima Beans

20 bushel size	$8.00
5 bushel size	2.25
2 bushel size	1.00
1 bushel size	.60

Garden size (composite culture for Garden Beans, Garden Peas, Lima Beans and Sweet Peas) ..... .35

FREE DESCRIPTIVE FOLDER SENT UPON REQUEST

This drawing, made from an actual photograph, shows inoculated Vetch compared with an uninoculated specimen.

Grass and Clover Seeds

ALL PRICES ON APPLICATION

Crimson Clover

TIMOTHY (Phleum Pratense).—This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loam, lowlands or in mountainous districts, although it will do well on any good loamy soils, provided moisture is abundant. It does not succeed so well, however, as Orchard, Tall Meadow or Herd's Grass on soil of a sandy or loamy texture, and is not of so much value for pasturage as other grasses. Red Top or Herd's Grass and Meadow Fescue mature at the same time as Timothy, and are excellent grasses to sow with it, both for hay and pasturage.

ORCHARD GRASS (Dactylis Glomerata).—Orchard Grass is a very vigorous grower, and yields large crops of excellent and most nutritious hay, and will last for years in increasing value with proper treatment. It is succulent and nutritious, and when mowed requires only a few days of seasonable weather to start it growing again, and usually two good crops of hay can be cut in a season. Orchard Grass fields can be kept in a continuous state of productiveness, provided a light seeding is made early each spring. It can be sown either in the spring or fall, although it is best sown in the spring. Sow at the rate of two bushels per acre, or if sown with Red Clover, one and a half bushels of Orchard Grass and eight pounds of Clover are the quantities usually sown.

PACEY PERENNIAL RYE GRASS.—Used very largely in Europe for both hay and pasture, and well adapted to this section also for both. It is a strong grower, starting early in the spring, and can be used to great advantage in mixtures. When sown alone use two or three bushels per acre or eight to ten pounds in mixture.

KENTUCKY BLUE GRASS.—Kentucky Blue Grass is one of the richest and most nutritious of pasturage grasses, and should be largely used in all pasturage mixtures, except on very light or sandy soils. For fall, winter, and spring, it makes the very best of pasturage, and mixed with other grasses, like Herd's Grass, or Red Top and Meadow Fescue, or Randall Grass, will give an excellent all-the-year-round pasturage.

GOLDEN, or LIBERTY MILLET.—Golden, or Liberty Millet makes a large yielding and most nutritious hay crop, quick-growing and easily cured. It requires, however, to be seeded thickly—not less than one bushel per acre—and the crop should always be cut while in bloom, before the seed hardens in the head. If the seed is allowed to form, the stalks get hard, and it does not make nearly as good quality hay, and at the same time it is more exhaustive to the land.

RHODE ISLAND BENT (Agrostis Canina).—A fine and very permanent grass, chiefly used for pastures or lawns, for which it is one of the best. Bushel equals fourteen pounds.

RED TOP, or HERD'S GRASS.—Red Top, or Herd's Grass, is one of the best and most satisfactory grasses all throughout the South. It is well adapted to all soils and situations, succeeding well on light, sandy soils, as well as stiff upland and low ground, and it really succeeds better in moist situations than almost any other grass. After once being established, it thickens and improves year by year, taking possession of the land and increasing in yield and quantity each successive year.

BERMUDA GRASS.—One of the most valuable pasturage grasses for the South. Recommended for spring seeding only.

UPLAND GRASS MIXTURE	LOWLAND GRASS MIXTURE
Kentucky Blue	Kentucky Blue
Fancy Red Top	Fancy Red Top
Timothy Seed	Alsike Clover
Red Clover	Red Clover
Rye Grass	Meadow Fescue
Orchard Grass	Timothy Seed

Thirty pounds is required to acre.
Prices on application.

Clovers

RED CLOVER (Trifolium Pratense).—Red Clover not only furnishes most excellent pasturage and fine hay crops, but its growth improves the land and adds humus to the soil wherever it is grown. It is the standard hay, pasturage and soil-improving crop wherever general farming is practiced.

MAMMOTH CLOVER (Trifolium Pratense Perenne).—Valuable with other grasses for mixed hay; ripens about with Timothy. Being a rank grower, it is largely used for plowing under as a fertilizer.

ALSIKE CLOVER.—Grows thicker and is finer in growth than Red Clover, making better hay and probably more and better grazing. It is also hardier, resisting extremes of heat and drought, and also severely cold weather to a remarkable extent. It succeeds on a variety of soils, light upland loamy lands as well as stiff bottom lands. The good qualities of Alsike are being appreciated everywhere.

CRIMSON, or SCARLET CLOVER.—Also known as Annual, or German Clover. This is for fall sowing only. When sown during June, July, August and September, in this latitude, it produces a wonderful crop and is one of the most successful soil-improvers that we have. Improves worn-out and poor soils, and is the cheapest and best fertilizer. Being a winter crop, it should be sown in August and September. Sow ten to fifteen pounds per acre. Bushel, sixty pounds.

SUDAN GRASS.—Sudan, the greatest forage crop, should be grown on every farm, where either hay or pasture is desired. It is highly resistant to drought and stands very heavy grazing. Yields from 2 to 10 tons per acre, is superior to either Millet or Sorghum in feeding quality, and may be fed in unlimited quantities. Sow 10 to 20 pounds per acre, 1 to 1½ inches deep, the highest quality hay resulting from heavy seeding. Should be harvested just before the heads appear, in the same manner as other grasses. Cures quickly and matures as early as Millet, the first cutting being ready in about 6 to 8 weeks.

ALFALFA, or LUCERNE.—The hardiest and most lasting of all Clovers, and when once established the most productive as well as the best soil-enricher of all. It can be cut for hay several times a year, yielding bountifully at each cutting, and the hay is of the highest feeding value. When established, Alfalfa yields four to eight cuttings per season, depending upon the section. It should not be grazed. It does best on a loamy limestone soil, the lime being very essential to its growth, and where lime is absent from the soil it should be added, and, as the roots penetrate to a great depth, it is not advisable to sow it on very heavy clay soils.

Red Clover

INOCULATE THIS SEED WITH MULFORD CULTURE

WHITE BOKHARA, or SWEET CLOVER.—Can be sown either in the spring or fall. Should be sown at the rate of 15 pounds to the acre. It furnishes good inoculation as a crop to precede alfalfa, and is also adapted for sowing on hillsides that are liable to wash or gully; but it will not succeed well on lands that do not contain some lime content. It is also largely used for sowing for bees.

PRICES ON ALL GRASS AND CLOVER SEED ON APPLICATION

Field of Alfalfa

Soy, or Soja Beans

SOY, or SOJA BEANS

WILSON EARLY BLACK.—A very prolific variety, and one of the best where a quick, early variety is desired. Average height on good land is about three feet.

MAMMOTH YELLOW.—The latest, yet the most extensively grown for both beans and forage, both of which it yields in great abundance. It grows more than 3 feet high; is erect in growth.

VIRGINIA. — On account of its abundant growth and large yield of beans the Virginia makes most excellent hay and ensilage. As it is about 20 days earlier than Mammoth Yellow, it can be grown further North and throughout the corn belt. The vines make a fine growth, are filled with pods, stand about 3 feet high, are easy to cut and easy to cure. The stems being fine and the leafage profuse adapts it particularly well for hay making.

COW PEAS

Cow Peas will make a good growth under very unfavorable conditions and on poor soil. However, as their merit as a soil improver lies in their ability to gather nitrogen, it stands to reason that the greatest benefit will be derived where the soil is put in good condition and fertile. Applications of lime to the soil are very beneficial also. The seed may be sown at any time in the spring when it has become warm enough to plant corn, and from that on to within about two months of frost time. It is well to remember the plant develops best in warm weather. Seed may be sown broadcast or with a wheat drill, using one to one and one-half bushels per acre.

BEST VARIETIES TO PLANT.—Clays, Whippoorwills, New Era, Mixed, Black Cows, Black Eyes, Canada Field Peas, etc. All our Cow Peas are fancy, recleaned, free from hulls. Write for our lowest prices.

HAIRY OR WINTER VETCH

This is one of the most valuable forage crops for the South, but requires to be sown in the fall for best results. Can be sown any time from July to October. Succeeds admirably sown at the last working of corn or cotton with oats or wheat. Should be sown at the rate of twenty to thirty pounds to the acre with one bushel of Oats or three-fourths bushel of Wheat. The Oats or Wheat help to hold the Vetch off the ground, enabling it to make a better growth.

WHITE SPRING OATS

For a spring oat for seeding in March and April, the White Spring Oats are unquestionably the best and surest yielding of spring oats, the advantages claimed for it being that it is earlier to mature, free from rust, healthy, clean and vigorous growth of straw, and makes a remarkably good yield of clean, bright, heavy grain. On account of its earliness to mature, it is one of the surest cropping varieties for the South.

EARLY AMBER SORGHUM

Furnishes a large yield of most nutritious forage, which can be fed either green or cured, and will yield two or three cuttings a year, stooling out thicker each time it is cut. It grows 10 to 12 feet high. Sow broadcast for forage at the rate of 1 to 1½ bushels per acre in drills 3½ to 4 feet apart.

DWARF ESSEX RAPE

This crop is very highly recommended for pasturage for sheep and cattle, furnishing most rich and nutritious pasturage within six to eight weeks from the time of sowing. The fattening properties of Rape are said to be very much better than those of clover. Sow three to five pounds per acre in drills; six to eight pounds per acre broadcast.

BUCKWHEAT

NEW JAPANESE.—This new sort has proven to be much earlier and more productive than any other variety. Grains very large and rich brown color. It excels all in yield and earliness.

Cow Peas

Wheat

LEAP'S PROLIFIC.—A splendid new variety, originating in the Shenandoah Valley. It is remarkable for its productiveness and fine quality of grain. The grain is flintier and of better milling qualities than the ordinary varieties. It is very uniform in its growth, stiff-strawed, healthy, strong grower and early to ripen. One thing particularly noticeable about this variety is its stooling qualities, it being particularly superior in this respect, producing more stalks to plant than the ordinary wheat. This, with the fine long heads which it produces, means an increase in productiveness, and farmers who have sown this variety are enthusiastic in its praise, claiming it to be the best and most productive variety now on the market.

PURPLE STRAW, or BLUE STEM.—A fine productive Wheat, in high favor in the South. Makes very best quality flour. We are very careful in securing this seed which we offer to get them from the best and largest-yielding crops grown throughout this section, and we have received the most flattering reports from our customers as to the large and satisfactory yields obtained from our seed.

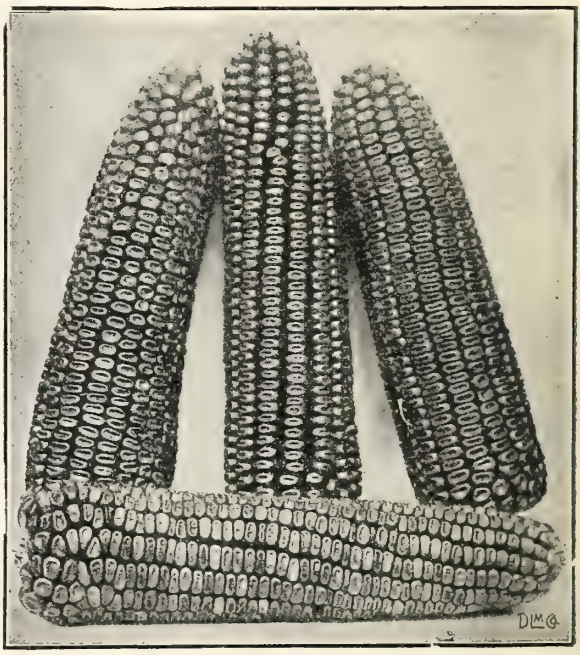
Selected Seed Corns

BOONE COUNTY WHITE.—A large-eared variety of White Corn. It has deep, soft and very white grains; it is a vigorous grower and has become very popular, and has probably taken more premiums than any other variety of corn for the last few years.

GOLDEN BEAUTY.—A broad-grained, large-eared variety, maturing in about 120 days; cob is small; grain very heavy and of a beautiful golden-yellow color.

COCKE'S PROLIFIC.—A very valuable white variety, making enormous yields on rich land. Especially adapted to river bottoms or lands subject to overflows. On account of its flintness, it can be shocked and harvested early and will not rot in the shock; grains white and flinty; superior for meal and hominy.

EUREKA ENSILAGE.—This variety is bred from the Cocke's Prolific. The ears are much larger and longer, but not as many to the stalk. The ears run from 9 to 12 inches long. It is a rather hard, pure white variety, and makes excellent meal. Is especially adapted to rich low grounds, and is one of the most valuable ensilage varieties.



Golden Beauty

EARTHENWARE SAUCERS

	Each	Dozen
4 inch	$ .04	$ .40
5 inch	.06	.50
6 inch	.07	.65
7 inch	.10	1.00
8 inch	.12	1.25
9 inch	.15	1.50
10 inch	.18	1.75
12 inch	.30	3.00
14 inch	.40	4.00

NEPONSET FLOWER POTS

	Dozen	Per 100	Per 1000
3 inch	$ .15	$ .80	$6.80

FLOWER POTS and FERN POTS

	Each	Dozen	Per 100
2 inch	$ .03	$ .20	$1.35
2½ inch	.04	.27	2.00
3 inch	.06	.30	2.25
4 inch	.06	.45	3.25
5 inch	.09	.70	5.25
6 inch	.12	1.25	7.75
7 inch	.18	2.00	15.00
8 inch	.30	2.75	20.00
9 inch	.40	3.75	29.00
10 inch	.55	5.50	37.50
12 inch	1.00	9.50	75.00
14 inch	1.60	16.00	125.00

Fertilizers for the Farm, Lawn, and Garden

MANN'S PURE BONE MEAL.—Pure animal bone is one of the best and most satisfactory fertilizers that the farmer can use. It can always be relied upon to give excellent result upon the growing crops, at the same time acting as a permanent improver. Analysis:

Bone Phosphate of Lime.....45 to 55%
Ammonia .....2½ to 3½%

SPECIAL CORN AND OATS FERTILIZER.—We recommend this specially prepared fertilizer for corn and oats. Its use will greatly increase the yield. Analysis:

Ammonia.....1¼%
Available Phosphoric Acid.....10%

STANDARD POTATO FERTILIZER.—This fertilizer is especially prepared for Irish and sweet potatoes, but will give splendid results on all root crops. We cheerfully recommend this brand to any one wanting a high-grade POTATO FERTILIZER. We ask you to give it a trial. Analysis:

Ammonia.....2%
Phosphoric Acid.....8%
Potash (Actual).....3%

POTOMAC "A" AMMONIATED SUPERPHOSPHATE.—This is our well-known brand of General-Crop Fertilizer, and has stood the test for more than 25 years. As a fertilizer, we cannot speak too highly for this brand for all early vegetables. Analysis:

Ammonia.....2%
Available Phosphoric Acid.....9%
Potash K. O.....2%

MANN'S SPECIAL GRAIN AND GRASS MIXTURE.—A grade of fertilizer which we can recommed for grain and grass. Analysis:

Ammonia.....2%
Available Phosphoric Acid.....10%

VIGORO

Specially prepared plant food

For LAWNS, GARDENS, FLOWERS, SHRUBBERY, TREES

5-lb. pkg	**$ .60**	**50-lb. bag**	**$3.00**
25-lb. bag	**1.75**	**100-lb. bag**	**5.00**

COTTON SEED MEAL.—Rich in ammonia and potash, making an excellent fertilizer for lawns and golf greens. **3 lbs. 25c, 5 lbs. 40c, 10 lbs. 60c, 25 lbs. $1.25, 50 lbs. $2.00, 100 lbs. $3.50.**

NITRATE OF SODA (For Forcing Plants and Shrubbery).—1 lb. 10c, 3 lbs. 25c, 10 lbs. 75c, 100 lbs. $5.00.

SULPHATE OF AMMONIA.—2-lb. pkg. 30c, 10 lbs. 75c, 25 lbs. $1.50, 100 lbs. $5.00.

ALUMINUM SULPHATE (For Rhododendrons and Azeleas).—1 lb. 10c, 3 lbs. 25c, 10 lbs. 75c, 100 lbs. $4.00.

BLOOD MEAL.—One of the best plant foods for forcing flowers and vegetables. Excellent for Rose Bushes during blooming season. **1 lb. 10c, 3 lbs. 25c, 5 lbs. 40c, 10 lbs. 75c, 25 lbs. $1.75, 50 lbs. $3.25, 100 lbs. $6.00.**

LIMOID (Hydrated Lime for Lawns and Gardens).—10-lb. bag 30c, 50-lb. bag 75c. Special price in ton lots. Ask for circular on use of Limoid.

PULVERIZED SHEEP MANURE.—2 lbs. 15c, 5 lbs. 30c, 10 lbs. 60c, 25 lbs. $1.00, 50 lbs. $1.75, 100 lbs. $2.75.

SHREDDED COW MANURE (For Garden and Lawn).—100-lb. bag $3.00.

ADCO

ADCO is a powder which, when mixed with almost any non-woody vegetable waste and kept moist, gradually converts the mass into real manure fully equal to the farmyard product in fertilizing power, but free from foul odor, flies, weed seeds, etc. The process is perfectly simple and not at all laborious.

Gardeners can now have plenty of manure at low cost and little trouble.

Farmers, by utilizing straw, cornstalks, etc., can secure their manure without the expense and labor of maintainig live stock.

ADCO, in 150-lb. bags, each.....$10.50

(Enough for a heap 10x10x6 feet, making about three tons of manure.)

ADCO, in 25-lb. bags, each.....$2.00

(Eough for 12 wheelbarrow loads of garden waste, making one-half ton of manure.)

Insecticides and Fungicides

APHINE.—A nicotine preparation for plant lice, thrip and red spider. **1 qt. $1.00, 1 gal. $3.00.**

ARSENATE OF LEAD, For Leaf-Eating Insects.—Sticks to the leaf better than paris green and remains longer in suspension, requires fewer applications; does not burn the leaf, thus allowing stronger solutions. White in color and shows just where it has been applied. These advantages make it preferable to paris green for destroying leaf-eating insects. **1 lb. 35c, 4-lb. pkg. $1.20.**

APHISTROGEN.—Makes a complete spray for most sucking insects; prepared especially for roses and other plants. **½ lb. $1.25, 2 lbs. $3.50.**

ANT FOOD (McGregor's).—An amazing discovery for killing ants, cockroaches, woodlice, snails and certain other insects. **½ lb 50c, 1lb. $1.00.**

BORDEAUX MIXTURE.—Ready for use by simply adding water. **1 lb. 40c,** makes 5 gallons spray; **4 lbs. $1.20,** makes 25 gallons spray; **qt. 50c, gal. $1.50, 5 gals. $6.25.**

BUG DEATH.—Used on potatoes, cucumbers, squash and currants, powerful insecticide. **1 lb. 25c, 3 lbs. 60c, 12½ lbs. $1.50.**

"BLACK LEAF 40"—40% Nicotine—Kills Aphis—For Sucking Insects.—Kills plant lice on roses, shrubbery, fruits, and vegetables. A concentrated solution of nicotine sulphate, guaranteed to contain not less than 40% of nicotine. A solution in the proportion of a teaspoonful to a gallon of water, to which add 4 pounds soap to each 100 gallons of solution. **1 oz. bottle 35c, ½ lb. $1.25, 2-lb. tins $3.25, 10-lb. tins $11.85.**

BLACK FLAG POWDER.—Small size 15c, medium size 35c, large size, 70c; powder guns 10c.

IMPROVED BLACK FLAG LIQUID.—½ pt. 20c, pt. 35c, qt. 70c, gal. $2.00.

CYANOGAS, "Calcium Cyanide," Grade A.—For the destruction of ground moles, wood chucks, rats and other rodents. **1 lb. 60c.**

DETHOL.—Destroys insect pests, flies, mosquitoes roaches, bed bugs, ants, moths, water bugs, animal lice and ticks. Positively kills mosquitoes and flies. Rid your place of roaches, ants and water bugs. Gets rid of bed bugs. **1 qt. $1.25, gal. $4.00.**

FISH OIL SOAP. — Dissolved in water makes an excellent spray for scale on palms, etc. **1-lb. pkg. 35c, 5 lbs. $1.50, 10 lbs. $2.80.**

FUNGTROGEN.—A highly concentrated form of fungicide that will conquer mildew and control black spots on roses. It also supplies an essential fertilizer. Dilute 1 part with 60 parts of water. **½ pt. 75c, pt. $1.25, qt. $2.00.**

HAMMOND GRAPE DUST, For Mildew and Blight—1-lb. carton 25c, 5 lbs. 75c.

HAMMOND'S SLUG SHOT, For Leaf-Eating Insects.—Destroys insects, worms and caterpillars on vegetables, potatoes, garden and house plants, shrubbery, vines, trees, fruits and flowers. **1 lb. 25c, 5-lb. pkg. 55c.**

GRAFTING WAX.—Used for grafting trees and other plants. **¼ lb. 15c, ½ lb .25c, lb. 40c.**

Spring - Summer Ground Dressing and Ground Fertilizer. A valuable plant food. Reinforces manure fertilizer. Supplies essential chemical elements to the soil. **1-lb. tin 75c, 2-lb. tin $1.25, 5-lb. tin $2.75.**

HELLEBORE (Powdered).—An excellent protection from currant worms, grape slugs, caterpillars, etc. May be applied dry or mixed in water. One ounce to three gallons. **½-lb. box 30c.**

INSECTROGEN. — A complete spray, poison, fungicide and fertilizer, an effective insecticide for leaf-chewing insects; also for black spot, mildew, and red spider. **½ pt. $1.00, pt. $1.75, qt. $2.75.**

KEROSENE EMULSION (Liquid).—1 qt. 60c, gal. $2.00.

LEMON OIL INSECTICIDE.—½ qt. 30c, pt. 60c, qt. $1.75, gal. $3.00.

KAYSO.—What it does: Spreads the Spray and makes it stay. The ordinary spray collects in spots, leaving unprotected spaces which permit infestation. Kayso gives a smooth, uniform coating on buds, twigs, branches, fruits and foliage, which will adhere long after the ordinary spray has disappeared. **½ lb. 30c, 2 lbs. 60c, 10 lbs. $2.50.**

LIME - SULPHUR SOLUTION.—Lime-Sulphur is used both as an insecticide and a fungicide. As an insecticide it is used principally against scale insects, especially the San Jose Scale. For scale insects it is applied while the trees are dormant and is diluted with 8 or 9 parts of water. As a fungicide it is used chiefly for the control of apple scab, 1½ gallons to 50 gallons of water. Lime-Sulphur may be used in combination with arsenate of lead and tobacco extracts. Paris green should not be used with Lime-Sulphur. **1-qt. can 40c, 1-gal. can $1.00, 5-gal. can $3.00, 10-gal. can $5.00, 25-gal. drum (per gal.) 25c, 50-gal. drum (per gal.) 22c.** Drums charged at $3.00; 30-gallon drums $1.50 each, subject to return credit.

LIME-SULPHUR POWDER.—Apply 12 to 15 pounds in 50 gallons of water. **1 lb. 35c, 5 lbs. $1.40, 10 lbs. $2.60**

MELROSENE.—The most effective remedy for killing full-grown rose bugs. Will not discolor flowers. Dilute 1 part to 20 parts of water. **½ pt. 50c, 1 pt. $1.00, 1 qt. $1.75, ½ gal. $3.25, gal. $6.00.**

NICO FUME (Paper).—A nicotine preparation. Furnishes the easiest method of fumigation. **Box of 24 sheets $1.25, 144 sheets $5.25, 288 sheets $9.50.**

NICO FUME (Liquid).—An effective vaporizing liquid. **¼ lb. 75c, lb. $2.00, 4 lbs. $7.00, 8 lbs. $13.00.**

SULPHO-TOBACCO SOAP.—A wonderful insecticide and fertilizer for both flowers and vegetables. Quickly exterminates insects. Excellent for preventing mildew and lice on roses; helps to grow healthy plants and beautiful flowers. Absolutely safe to handle. Sure death to plant insects in and out of doors. **3-oz. cake 10c, 8-oz. cake 20c.** A 3-ounce cake makes 1½ gallons of solution; an 8-ounce cake makes 4 gallons.

ANYTHING THAT CONTAINS POISON CANNOT BE SENT BY MAIL

INSECTICIDES AND FUNGICIDES—Continued

PARIS GREEN, For Leaf-Eating Insects.—It is a strong poison and should be used with care. Mix one pound of paris green to 50 pounds of plaster, or with water to 150 gallons. On vines and tender vegetables use a larger proportion of plaster and water. **¼ lb. 20c, ½ lb. 30c, lb. 45c, 2 lbs. 80c, 5 lbs.$ 1.75.**

PYROX (Bowker's).—The one best and safest all-around spray which kills all leaf-eating insects and prevents blights and all fungous troubles without injury. **1 lb. 50c, 5 lbs. $1.75, 10 lbs. $3.00, 25 lbs. $6.25, 50 lbs. $10.75, 100 lbs. $16.50.**

SODIUM FLOURIDE INSECTICIDE POISON.—Kills cock roaches, water bugs, ants, croton bugs and lice on poultry. **Small size 35c, large size 60c.**

SCALECIDE, THE TREE SAVER.—One gallon "Scalecide" will spray as many trees as 3½ gallons of Lime-Sulphur Solution. Dilute for all dormant spray work, 1 part to 15 parts of water. **1 qt. 75c, gal. $1.75, 5 gals. $6.25, 10 gals. $10.60, 15-gal. drums $13.50, 50-gal. bbls $38.00.**

SULPHATE OF COPPER.—**Per lb. 15c, 10 lbs. $1.25.**

SULPHUR CANDLES.—**Each 15c, doz. $1.50.**

SULPHUR (Flowers).—**1 lb. 10c, 10 lbs. 75c, 50 lbs. $3.00.**

PARA DICHLOROBENZENE, or CRYSTAL GAS.—Controls peach borers; use in June and September, 1 ounce to each tree. **1 lb. 50c, 5 lbs. $2.00, 10 lbs. $3.50, 25 lbs. $7.50, 50 lbs. $14.00.**

TOBACCO DUST.—**1 lb. 10c, 10 lbs. 60c, 50 lbs. $2.50, 100 lbs. $4.50.**

TREE TANGLEFOOT. — A paste preparation painted around the trunk of a tree to keep caterpillars, etc., from crawling into the tree. **1 lb. 50c, 5 lbs. $2.25, 10 lbs. $4.25, 20 lbs. $8.00.**

TANGLEFOOT ROACH AND ANT POWDER is odorless, non-irritating and is more certain to rid premises of roaches and ants than any irritating powder or liquid. **4-oz. can 25c.**

DRYTOMIC.—Same as Atomic Sulphur, but in powder form. **4 lbs. 60c, 8 lbs. $1.10, 200-lb barrel $26.50.**

SULFOCIDE, A Better Summer Spray.—A concentrated liquid sulphur fungicide. Used on both peaches and apples and on all kinds of fruits, vegetables, and flowers. Controls apple scab, brown rot of peaches, plums and cherries, blight and rot of potatoes, tomatoes and melons, mildew and rust of flowers and shrubs. Convenient, economical, effective. Dilute 1 to 200. **1 pt. 70c, qt. $1.00 gal. $2.75, 5 gals. $8.75, 10 gals. $15.00, 30 gals. $39.00, 50 gals. $60.00.**

TEROGEN.—A new Autumn and Winter ground dressing for the rose garden; destroys insect pests and diseases before they attack; also acts as a fertilizer. **1-lb. tin 75c, 2-lb. tin $1.25, 5-lb. tin $2.75, 25-lb. tin $11.00.**

VOLCK.—A spray for the garden, nursery, and greenhouse; effectively controls red spider, mites, white flies, scales, mealy bugs, caterpillars, aphis, thrip, etc.; not only kills the insects but also acts as a repellant. **½ pt. 50c, pt. 75c, qt. $1.00.**

ATLAS
NON-POISONOUS
WEED KILLER
PATENTED

Will exterminate all undesirable vegetation—including poison ivy—as easily as watering a garden, without endangering human or animal life. One gallon is ample to clear 500 square feet of densely vegetated area. **1 qt. 75c, gal. $2.00, 5 gals. $8.00.**

KEY WEED is especially adapted for destroying weeds in walks, dirt tennis courts, golf links, etc. One application will kill roots and foliage in 48 hours and no more weeds will grow until more seed is sown. **Qt. can 60c, gal. can $1.50, 5 gals. $6.25.**

RAT CORN for killing rats and mice. **Box 25c.**

ZENOLEUM, DISINFECTANT DIP.—**Pt. 50c, qt. 75c, ½ gal. $1.25, gal. $2.00.**

CUT WORM KILLER, for use as poisonous bait against cut worms and slugs, by placing around plants subject to attack. It has an enticing odor that worms prefer to vegetation. NOTE.—One pound is sufficient for 100 plants in hills or 75 in rows. **1-lb. pkg. 30c.**

GENUINE FELIX GIRARD RAT AND MOUSE EMBALMER is packed in three sizes—

16 ounces $3.00, covers 3,000 square feet floor space.
5 ounces $1.00, covers 800 square feet floor space.
2 ounces 50c, covers 300 square feet floor space.

B-K
Bacili-Kil
Trade-Mark

What B-K Does for the Farmer and Why

It destroys at once on contact the germs of disease and loss in live stock and poultry and the bacteria that contaminate and spoil milk and other dairy products.

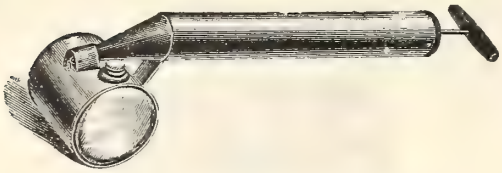
It helps prevent diseases of live stock and poultry, thus adding profits.

It helps to produce highly pure milk and cream and more of it—makes the pay check bigger.

IT IS CLEAN—can be used anywhere. Leaves things clean, purified, odorless. Leaves no odor of itself to contaminate. **1 qt. $1.25, 1-gal. jug $3.00, 5-gal. jug $12.50.**

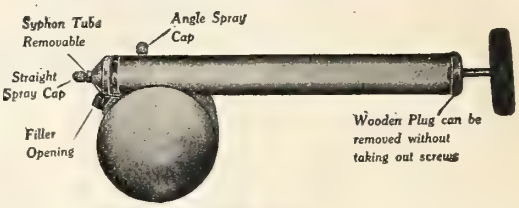
Sprayers for Applying Insecticides

HARVEST HOME SPRAYERS



These Sprayers throw a very fine spray of any liquids usually used for destroying insects, bugs, etc., and for keeping cattle free from flies during the summer weather. **Each 50c.**

AUTO COMPRESSED-AIR SPRAYER



Just the thing to use in the greenhouse, window garden, for rosebushes and in the poultry house.

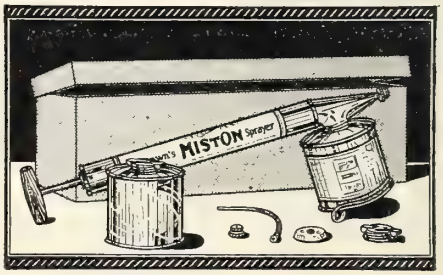
37b—Galvanized Tank, Brass Tube.....**$1.00**
26c—Brass Tank.....**$1.25**

BROWN'S NEW

MISTON

LACQUER SPRAYER

For HOME USE and PROFESSIONAL RESULTS



MistOn Outfit, Brass.....**$2.50**
Single Sprayer, Brass.....**$2.00**

MYERS COG GEAR BUCKET SPRAY PUMP

Fig. 1726, No. R324, illustrates the Myers Spray Pump Changing-Gear Handle. This Pump has 1½-inch diameter brass cylinder with solid plunger, brass ball valve and brass air chamber discharge tube. The foot rest, head and cog gear handle are malleable iron. The large cylinder, in combination with the cog gear handle, makes this an exceptionally easy-working pump of more than ordinary capacity. Has patented jet agitator, which keeps liquid thoroughly mixed.

Price, with 3-ft. Rubber Hose.....**$6.50**
Price, with 8-ft. Extension Pipes.. **7.25**
Bordeaux Nozzle..... **1.00**
Vermorel Nozzle..... **.80**
Extension Pipe..... **.75**

Fig. 1726

MYERS COG GEAR BARREL SPRAY PUMP

With Malleable Iron Base

Cylinders, Valves, Valve-Seats and Discharge, All Brass

All Working Parts Submerged in Liquid, hence no priming necessary; has both Jet and Mechanical Agitator

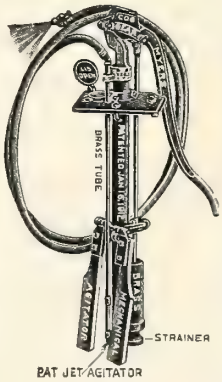


Fig. 1521

Fig. 1521, No. 318B, represents Myers Cog Gear Barrel Spray Pump, with both jet and mechanical agitators, complete with 15 feet of ½-inch 5-ply discharge hose and Myers graduating Vermorel nozzle.

Price.....**$16.00**

AUTO SPRAY No. 5—General Purpose Bucket Spray Pump

This Pump is the ideal all-purpose hand sprayer. Its field is practically unlimited, as it may be used for spraying trees, vines, garden truck, potatoes and field crops. It also can be used for handling white-wash, disinfectants, etc.

It is made entirely of brass, doing away with all danger of corrosion. All the parts are made on screw machine and for that reason are interchangeable.

The Pump is double-acting. This feature makes the spray continuous. Any one who has used a single-acting pump of this kind will immediately recognize the advantage in a pump that works on both the up and down stroke. We furnish with this pump 2½ feet ½-inch suction hose, with heavy strainer, on an extension. **Price $4.50.**

Sprayers for Applying Insecticides

BROWN'S AUTO-SPRAY No. 9
A Self-Operating or Automatic Sprayer

Weight—Empty 7 pounds, loaded 39 pounds, shipping weight 15 pounds.

The **Auto-Spray No. 9** is one of the best on the market. It is very strong and practical. When properly charged contains 3 gallons of solution and 1 gallon compressed air. Ten to twelve strokes of the plunger will compress the air and two pumpings will empty entire contents.

All parts which come in contact with solution are made of brass, and the handle and other parts are made of malleable iron.

Length of cylinder 21 inches, diameter of cylinder 7 inches, capacity about 4 gallons, weight, empty 7 pounds.

Auto-Spray No. 9D—Galvanized Reservoir Auto-Pop. Our special price.....**$6.50**

Auto-Spray No. 9B—Brass Reservoir, Auto-Pop. Our special price..... **9.00**

No. 6—Brown's Bucket Spray..... **4.50**

Extras

Auto-Pop **1.50**

Auto-Pop Nozzles, with Hose and Fittings..... **2.00**

Extension Pipe, Brass, 2-foot length..... **.50**

Brass Elbow Extension..... **.35**

Brass Strainer for straining solutions used in Auto Spray..... **1.20**

THE MYERS WHITEWASH, COLD WATER PAINTING MACHINE AND GENERAL PURPOSE SPRAYER

With patent Double Agitator—a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable, is held securely in place by two thumb nuts, one on each side, which holds the cover tight and prevents spilling or splashing of the liquid. Holds 7 gallons.

The pump is our No. R324 Cog Gear Bucket Spray Pump, as shown under Fig. 1736, fitted with Bordeaux nozzle, brass ball valves, and has both jet and dasher agitator. Cog Gear increases the leverage 33⅓ per cent.

The Pump Has 1½ Inch Cylinder.

No. R329—Myers Whitewash, Cold Water Painting Machine and General Purpose Sprayer, complete as illustrated in Fig. 1736.
Price **$13.00**

BROWN'S AUTO-SPRAY No. 50
Lighter Weight, Smaller Capacity

This sturdy little machine is almost identical to Auto-Spray No. 9 in construction and manipulation, but has half the capacity, holding about two and one-half gallons. It is entirely suitable for spraying on a smaller scale. It is particularly recommended for use where weight is a factor, as when the womenfolk or youngsters help out with the spraying.

No. 50

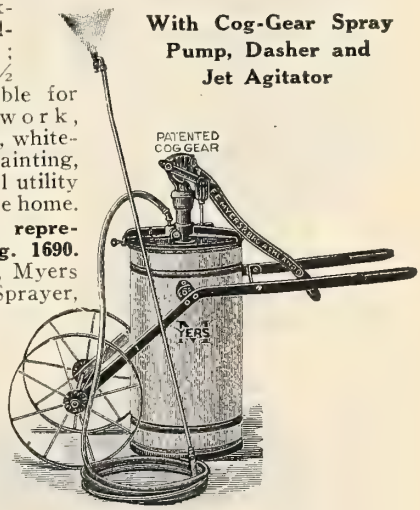
Auto-Spray No. 50D—Galvanized Tank with Auto-Pop, and 2-ft. extension pipe, **$5.50.**

THE MYERS PORTABLE SPRAYER

With Cog-Gear Spray Pump, Dasher and Jet Agitator

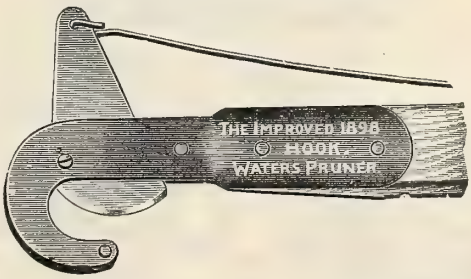
Made of extra heavy galvanized iron; capacity 12½ gallons; suitable for greenhouse work, spraying trees, whitewashing, painting, etc.—a general utility pump about the home.

Price List represented by Fig. 1690.—No. R 337B, Myers Portable Sprayer, complete as shown in illustration, with Dasher and Jet Agitator, 15-ft. Hose, 8-ft. Extension and Vermorel Nozzle.



Price $26.00.

WATERS' TREE PRUNER

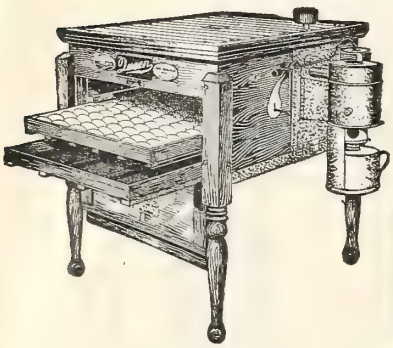


Waters' Tree Pruner is the only pruning implement which requires no skill in sharpening. It is least liable to get out of order.

6 ft. long	**$1.80**	**10 ft. long**	**$2.25**
8 ft. long	**2.00**	**12 ft. long**	**2.40**

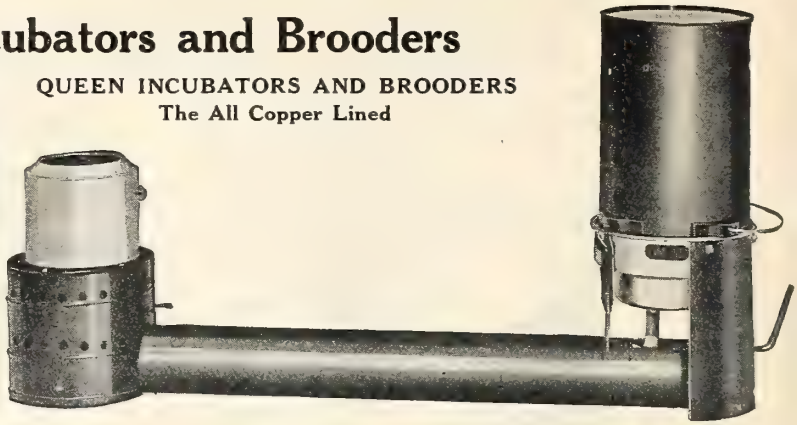
Extra Knives 25c

Incubators and Brooders



QUEEN INCUBATORS AND BROODERS

The All Copper Lined



Style K Incubators

No. 20—Capacity 70 eggs, retail price.....**$16.50**
No. 21—Capacity 130 eggs, retail price..... **27.50**
No. 22—Capacity 220 eggs, retail price..... **36.75**

Queen Incubators

No. 1—Capacity 85 eggs, retail price..... **27.50**
No. 2—Capacity 135 eggs, retail price..... **37.50**
No. 3—Capacity 180 eggs, retail price..... **44.50**
No. 4—Capacity 275 eggs, retail price..... **57.75**
No. 5—Capacity 400 eggs, retail price..... **68.00**
No. 25—Capacity 600 eggs, retail price.....**103.00**
No. 35—Capacity 800 eggs, retail price.....**132.00**
No. 45—Capacity 1,000 eggs, retail price.....**157.00**

SELF-REGULATING COLONY BROODER STOVE

Even Heat All the Time—Day or Night Winter or Summer

THE QUEEN OIL-BURNING BROODER

The Complete Burner and Canopy

Heavy galvanized iron canopy, ventilated through hole on top.

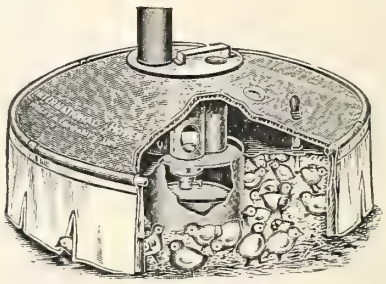
No. 32—Oil-Burning Hover, 300-chick size.....**$17.50**
No. 42—500-chick size..... **20.00**
No. 52—1,000-chick size..... **22.50**

QUEEN COLONY BROODER STOVE

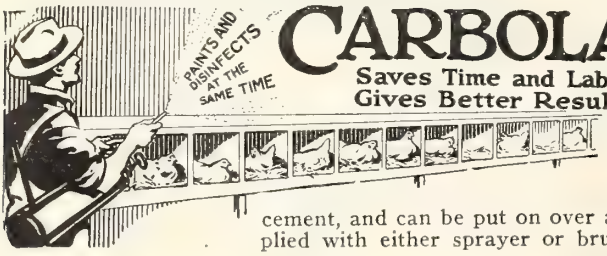
	No. 1 600-Chick	No. 2 1200-Chick
Height to top of stove.....	23 ins.	26 ins.
Diameter of cylinder.....	10 ins.	11 ins.
Diameter of hover.....	42 ins.	52 ins.
Diameter of grate.....	9 ins.	10¾ ins.
Height of hover from floor.....	8½ ins.	11 ins.
Shipping weight.....	77 lbs.	104 lbs.

No. 1—600 Chick Size.....**$21.50**
No. 2—1200 Chick Size..... **26.50**

INTERNATIONAL SANITARY HOVER



Man's Best Way.—The air is kept wholesome by diffusion through the cloth curtain. There are no drafts under the hover. It hovers 100 chicks and has enough ventilation for 2,400. **Price $13.50.**



CARBOLA

Saves Time and Labor Gives Better Results

—THE DISINFECTANT THAT PAINTS. Carbola is infinitely superior to lime, which loses what slight disinfecting qualities it ever had by slacking when exposed to the air. Very much better than kalsomine or whitewash because it paints just as clean and bright a white, but will not chip, scale or peel off, no matter how many coats are applied. It may be used on either stone, brick, wood, metal, or cement, and can be put on over a whitewashed or painted surface. It can be applied with either sprayer or brush. **5 lbs. 75c, 10 lbs. $1.25, 50 lbs. $4.50.**

Poultry Supplies

THE PUTNAM BROODER

This is used to heat a home-made brooder, which will take the best of care of from 30 to 60 chicks. Instructions for making brooder packed with every heater. A boy can make the brooder in an hour with saw and hammer. The materials need not cost over 25c. **The Putnam Brooder Heater** holds one quart of oil and **will burn 10 days without filling** or trimming; needs no other attention.

PUTNAM HEATER—Our Special Price $1.95
Keeps water from freezing in cold weather.

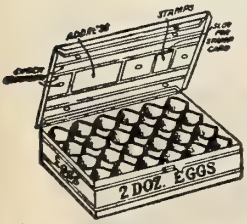
CORN SHELLER

Original in every feature; never breaks or fails to do good work. Shells fast. Shells easily. **Price $3.00.**

STAR FOUNTAINS

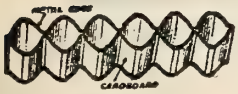
10c each

PARCEL POST EGG BOXES



NEW MODEL EGG BOXES

1½-doz. size, all eggs, weight empty 3 lbs....**$1.25**
2-doz. size egg box..... **1.50**
3-doz. size egg box..... **1.75**
4-doz. size egg box..... **2.00**
6-doz. size egg box..... **2.50**
12-doz. size, all eggs, weight empty 10 lbs.... **4.00**



COMBINATION CRATES

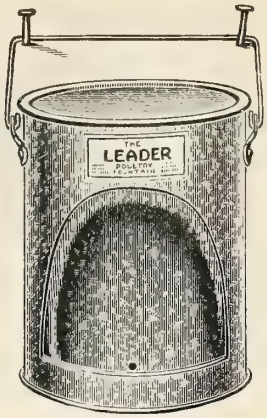
With Metal Containers

No. 1—2 lbs. and 1 doz. eggs.....**$1.50**
No. 2—4 lbs. and 2 doz. eggs..... **2.00**
No. 3—4 lbs. and 3 doz. eggs..... **2.25**

We carry a large stock of **CELLULOID LEG BANDS** in all colors. Price, **60c per 100, 12c per dozen, 30c for 50 bands.**

DRINKING FOUNTAINS AND FEEDERS

Star Drinking Fountains.....**$.10**
No. 11—Round Chick Feeder (8-hole size)..... **.10**
No. 12—Round Chick Feeder (12-hole size)..... **.20**
No. 58—Double Feeding Trough (12 ins. long).... **.30**
No. 60—Double Feeding Trough (24-in. size)..... **.60**



CAPONIZING SETS

$3.50 to $10.00

LEADER FOUNTAIN

A new Sanitary Fountain, practical to use, easy to keep clean.

A saving of from 30 to 40 per cent over any fountain of its size.

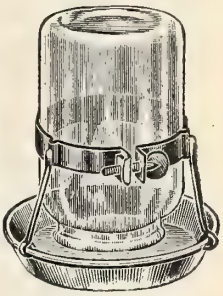
6-qt. size.....**85c**
3-gal. size.....**$1.50**

FELKER'S NIFTY FEEDERS

25c

HANDY—A PERFECT FEEDER

For Sour Milk, Buttermilk, Medicine, Water, Grain, Grit.



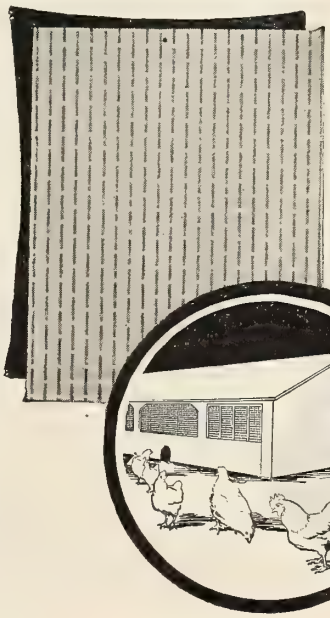
The container is aluminum, the only metal in which sour milk or medicine can be fed with safety. The **Handy** is adjustable, simple to operate, and durable; rustproof and non-corroding. Every one has some kind of a quart fruit jar. The **Handy** fits them all.

Price, each, 25c

CEL-O-GLASS

CEL-O-GLASS is a new, unbreakable glass. It is the most economical and practical glazing material on the market. It replaces ordinary, fragile, costly glass for nearly every purpose.

CEL-O-GLASS is made of coarse mesh galvanized wire cloth treated in such a manner that the spaces between the strands are filled with a clear, translucent, tough, flexible substance that will not rub off, peel, or become brittle.



CEL-O-GLASS cannot rust; 3 feet wide. **Per running foot 50c.**

Poultry Supplies

PRATT'S POULTRY REGULATOR

25c and 50c sizes

12 lbs.....$1.40
25-lb. bucket..... 3.00
100-lb. drum.....10.00

PRATT'S LICE KILLER

(Powdered Form)

Package.....25c, 50c

PRATT'S DIP AND DISINFECTANT

Quart 50c, gallon $1.50

PRATT'S ROUP REMEDIES

(Tablets or Powder)

Powder 25c, 50c, $1.00. Roup Tablets 25c, 50c, $1.00

DON SUNG (Chinese)

Laying Tablets for Winter Eggs

Package 50c and $1.00

CONKEY'S Y-O

1 lb. 65c, 2 lbs. $1.15, 5 lbs. $2.50

CONKEY'S ROUP REMEDY

25c, 50c, and $1.00 sizes

CONKEY'S WHITE DIARRHOEA

25c and 50c sizes

ROUP-OVER

For treatment of Roup, Canker, and Colds in Poultry. **Price 50c.**

AVICOL

For treating White Diarrhoea and Cholera. **Price 50c.**

WALKO

For white diarrhoea, roup and cholera. **Price 50c.**

OAKES SANI-THERMO FOUNTAINS

Built like a thermos bottle with two-inch insulation. Keeps water cool in summer—and warm in winter. Fills from the top. Easy to wash or scald. Conical top prevents hens from roosting on fountain. Heavy wire bail for carrying. Made of heavy galvanized iron in three sizes:

F-16, 2-gal. size.....$4.00
F-17, 3-gal. size..... 4.50

Hopper Closed

DRY MASH HOPPER

The Most Sanitary Anti - Clog Dry - Food Hopper manufactured.

Prices

12 in. 12 qt.....**$1.75**
24 in. 24 qt..... **2.60**

Parcel Post Weight

12 qt.....6 lbs.
24 qt.....10 lbs.

DR. HESS POULTRY PAN-A-CEA

makes poultry healthy; makes hens lay; not a stimulant, but a tonic, that tones up the dormant egg organs, brings back the scratch and cackle, and compels each hen to put her share of eggs in the market basket.

It also contains internal antiseptics that counteract disease; insures a healthy, singing poultry flock. Cost but a trifle—a penny's worth enough for 30 hens per day. **1½ lbs. 25c, 5 lbs. 75c, 12 lbs. $1.50, 25-lb. pail $3.00.** GUARANTEED.

CONKEY'S BUTTERMILK STARTING FOOD FOR BABY CHICKS

Small packages 25c and 50c; 25-lb. and 100-lb. bags. Also Growing Mash put up in 100-lb. bags. Prices on application.

PENNOID RUBBER ROOFING

For Your Poultry House

Medium, 108 sq. ft., per roll.....**$2.50**
Heavy, 108 sq. ft., per roll..... **2.85**

STORMTITE ROOFING

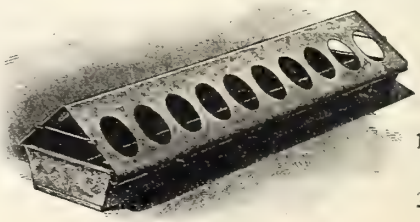
Medium, 108 sq. ft., per roll.....**$2.00**
Sheathing Paper, per roll..... **1.00**
Kure-A-Leke Roof Paint, per gal..... **1.25**

INEXPENSIVE BABY CHICK FEEDER FOR LARGE FLOCKS

This feeder is made in three sizes—21 inches, 35 inches, and 48 inches in length. Sloping top prevents roosting and slides off for filling or cleaning.

F-36, 21 inches, each.....**$1.20**
F-37, 35 inches, each..... **1.80**

FELKERS JR. CHICK FEEDER



The Most Successful Chick Feeder

Prices

12-inch size, **20c**

20-inch size, **35c**

Dairy Supplies and Remedies

THE LOUDEN STANCHION

Gives the Cow Pasture-Comfort in the Barn

Every dairyman realizes that if he is to get the greatest milk yield from his cows they must be comfortable at all times—as much so in the barn as in the pasture. Hence there is nothing of greater importance in Dairy Barn Equipment than the Stanchion by which the cow is held.

Fig. 1445—Steel Stanchions, ea..**$4.50**
Fig. 1458—Wood Lined Stanchions, each..... **4.50**

DAZEY GLASS CHURN

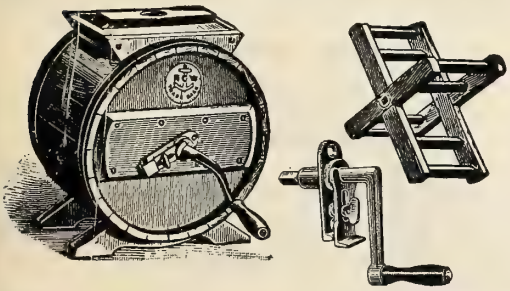
No. 20—2 qt. **$2.25**

No. 30—3 qt. **$2.50**

No. 40—4 qt. **$2.75**

Can furnish extra Jars

CEDAR CYLINDER CHURNS



Double Dasher—Thumb Screw Lock

We now use a double dasher, and the crank is locked to the churn with a clamp and thumb screw which prevents leakage—lock cannot break. The top is large, and dasher easily removed. The best churn in use. Prices:

No. 1, 3 gallons, each.....**$3.75**
No. 2, 4 gallons, each..... **4.50**
No. 3, 7 gallons, each..... **5.25**
No. 4, 10 gallons, each..... **6.00**

MILK BUCKETS

No. 5262, 12-quart Milk Bucket with Strainer, each **$1.40**

COMPRESSED PURE SALT BRICKS

Each **25c**
Case, 1 dozen.....**$2.50**

KEYSTONE DEHORNING CLIPPER

The practice of dehorning cattle is coming more into vogue. It is a mercy to the animals. Prevents goring. The blades on the Keystone are made of best steel. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon. **Price $14.00.**

BAG BALM

For Bunches, Caked Bag, Cuts, Sore Teats, Chapping, and Inflammation. **Price per can 60c.**

KANT SUK

No. 1055, calf size, **60c**

RICE'S CALF WEANERS

Also prevents cows from sucking themselves.

No. 1, for Calves.....**$.50**
No. 2, for Heifers.... **.75**
No. 3, for Cows.....**1.00**

SHAW'S CALF WEANERS

Price, each.....**60c**

DR. HESS IMPROVED STOCK TONIC

Every ingredient endorsed by the United States Dispensary and other high medical authorities. It aids digestion, makes stock healthy, and expels worms. Helps stock convert more ration into milk. Prices: **Pkgs. 25c and 50c, 25-lb. pail $3.00.**

SAVE YOUR COWS BY USING KOW-KARE

The Great Cow Medicine

Watch every cow, and at the first sign of disorder in appetite, digestion, or flow of milk, give a dose of **KOW - KARE.** Carefully follow the directions as given on the box, and that cow will get well.

KOW-KARE is in powder form, to be given in regular feed. It cures abortion, barrenness, and scours, caked udder, removes retained afterbirth, purifies the blood, strengthens the appetite, vitalizes the nerves, and prevents disease. It increases the milk. It is a medicine for cows only. Prices: **small size 65c, large size $1.25.**

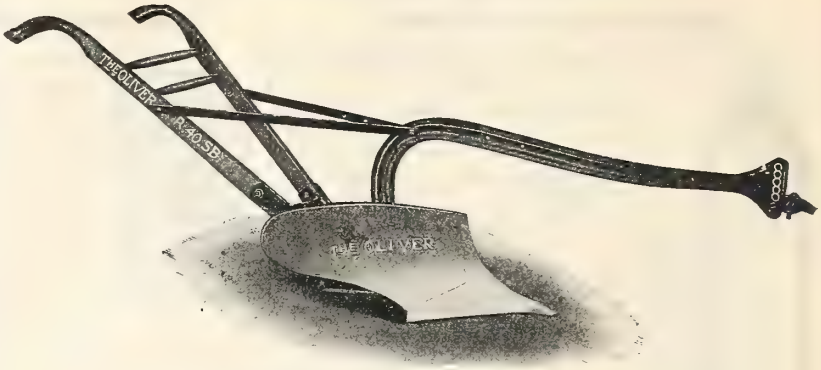
Oliver Plows, Harrows, and Rollers

STEEL BEAM PLOW

No. AC-2	$10.50
No. 10	16.00
No. 13	18.00
No. 19	19.50
No. 20	21.00
No. 40	24.00
Jointers, complete	4.95

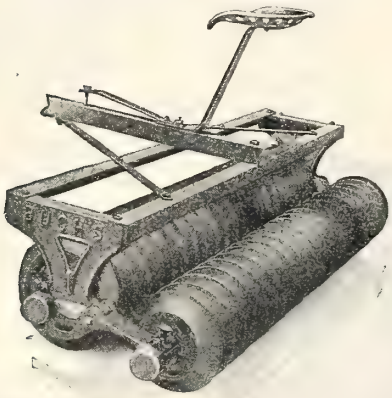
No.	Share	Land-slide	Mould-slide
13	$.65	$1.25	$3.75
19	.75	1.35	4.25
20	.85	1.40	4.50
40	.90	1.45	5.00

Wheels 2.20



Agents for Genuine Oliver Chilled Plows and Harrows

BUCH'S SOIL PULVERIZER

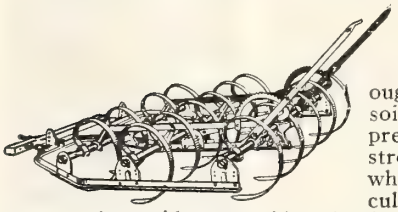


Solid one-piece discs, 4-inch face, 15-inch front, 12-inch rear. Pulverizer so constructed that discs must alternate and impossible to get out of alignment. End discs closed to keep out stones and dirt.

No. 626—Length 7 feet; rolling capacity, 74-inch; diameter front disc, 15-inch; diameter rear disc, 12-inch; number sections, 37; weight, 900 pounds. Price **$72.50**

No. 627—Length 8 feet; rolling capacity, 84-inch; diameter front disc, 15-inch; diameter rear disc, 12-inch; number sections, 43; weight, 1,000 pounds. Price **$80.00**

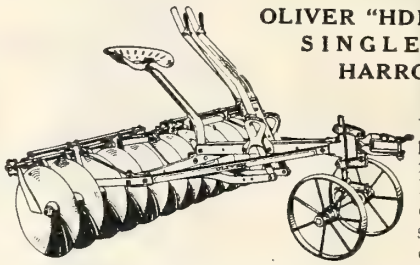
OLIVER SPRING-TOOTH HARROW



The Oliver Spring-Tooth Harrow thoroughly stirs the soil in seed bed preparation, destroys the weeds when used for cultivating purposes and provides a rapid and effective means of summer fallowing. It has good clearance and the teeth are arranged so that trailing of the teeth is impossible. It is strong and durable to stand work in rough land or in other conditions where harrowing is difficult.

P. B. 2-section, 15 teeth **$25.50**
P. B. 2-section, 17 teeth **27.50**

OLIVER "HDH" SERIES SINGLE DISC HARROWS



Complete with blued protected round discs, hard oil cups, rigid scrapers, evener, seat and rigid pole. No weight pans, fore-carriage, or neckyoke.

"DH" 8x16 Disc Harrow, with Pole **$44.00**
"DH" 8x16 Disc Harrow, Fore-Truck **50.00**
"DH" 10x18 Disc Harrow, Fore-Truck **56.00**

STEEL LAND ROLLER

3 sections, 8-foot, **$44.00**

BROWN GARDENER'S HARROW

Made in one section. Contains 30 and 24 teeth. It has no equal as a tool for market gardeners. Designed to be used for one horse, and is easily handled in small garden plots. The Harrow is strong and durable and is furnished with runners for transportation.

25-tooth Harrow, cuts 3 feet 8 inches wide **$10.00**
32-tooth Harrow, cuts 4 feet 6 inches wide **11.50**
40-tooth Harrow, double hinge **17.00**

OLIVER ALL-STEEL SPIKE -TOOTH HARROWS

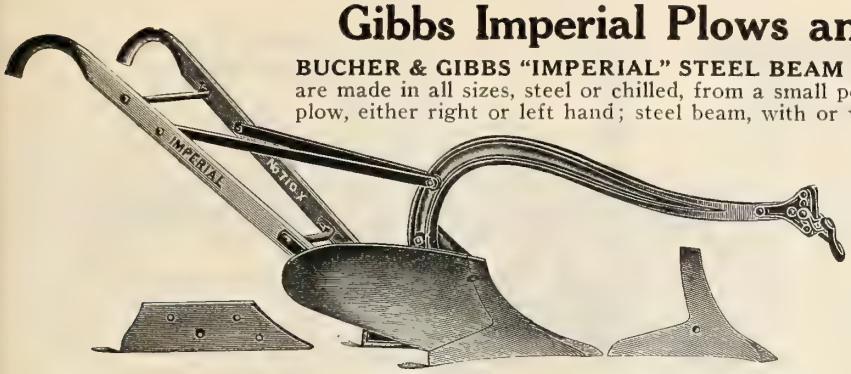
A spike-tooth Harrow with lever up. A smooth-hinge Harrow with lever down. Made entirely of steel.

"UBC" Series—Closed End—U-Bar Lever Harrow with 9/16-inch Teeth—5-Bar

1-Section, 25 teeth **$10.25**
2-Section, 50 teeth **19.50**
2-Section, 60 teeth **21.50**

ALL PRICES SUBJECT TO CHANGE

Gibbs Imperial Plows and Harrows

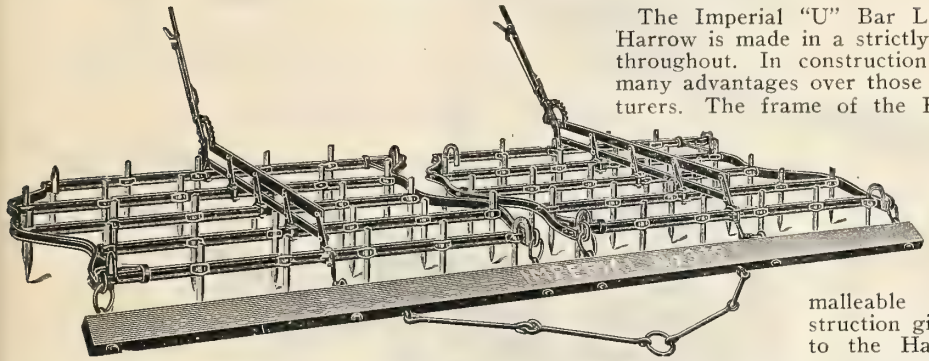


BUCHER & GIBBS "IMPERIAL" STEEL BEAM PLOWS.—Imperial Plows are made in all sizes, steel or chilled, from a small pony to a large three-horse plow, either right or left hand; steel beam, with or without wheel and jointer.

No.	Plow	Share	Land-slide	M'ld-board
5	$11.00	$.40	$ .75	$2.10
10½	19.50	.75	1.35	4.25
12	24.00	.80	1.40	4.50
700X	21.00	.80	1.40	4.50

No.	Plow	Share	Land-slide	M'ld-board
512X	$24.00	$.85	$1.40	$5.00
300X	24.00	.85	1.40	5.00
600X	24.00	.85	1.40	5.00

THE IMPERIAL "U" BAR LEVER HARROW



The Imperial "U" Bar Lever Spike-Tooth Harrow is made in a strictly first-class manner throughout. In construction this Harrow has many advantages over those of other manufacturers. The frame of the Harrow is channel steel, good weight and strength. The "U" Bars pass through the main frame of the Harrow, and are held in position by a malleable clamp. The construction gives great strength to the Harrow and at the same time allows flexibility. Each section is fitted with four steel runners, one attached to each corner, for transportation. These runners, when the Harrow is at work, are on top of the frame and do not obstruct. By throwing the lever forward the runners are thrown down in a position which carries the entire Harrow off the ground.

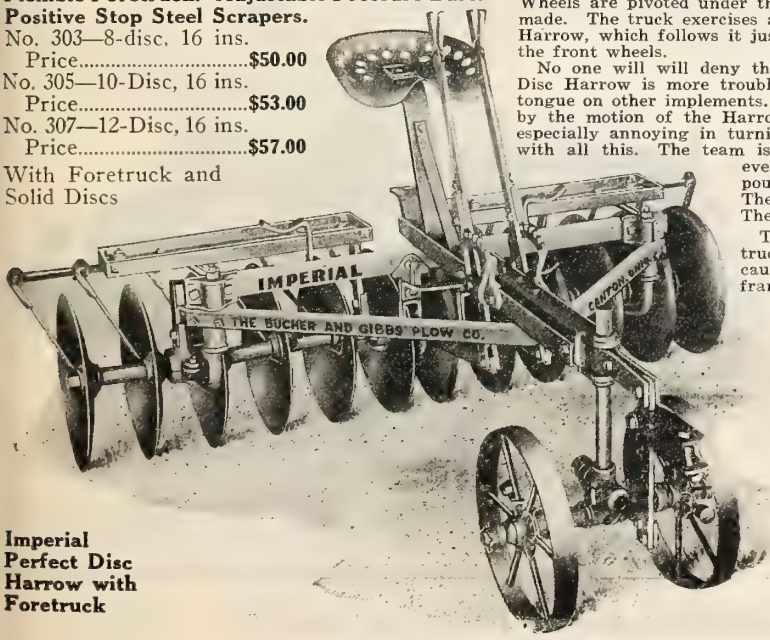
No. 280—1-section, 25 $\frac{9}{16}$-inch teeth, weight 100 pounds. **Price**.....**$10.25**
No. 281—2-section, 50 $\frac{9}{16}$-inch teeth, weight 200 pounds. **Price**..... **19.50**
No. 285—2-section, 60 $\frac{9}{16}$-inch teeth, weight 220 pounds. **Price**..... **21.50**

THE IMPERIAL PERFECT DISC HARROW

Anti-Friction Bumpers. Interlocking Hubs. Flexible Foretruck. Adjustable Pressure Bars. Positive Stop Steel Scrapers.

No. 303—8-disc, 16 ins.
Price.....**$50.00**
No. 305—10-Disc, 16 ins.
Price.....**$53.00**
No. 307—12-Disc, 16 ins.
Price.....**$57.00**

With Foretruck and Solid Discs



Imperial Perfect Disc Harrow with Foretruck

Instead of being guided by a tongue, the Harrow is controlled by a two-wheeled truck attached to the front end of the frame. The Wheels are pivoted under the frame and allow a square turn to be made. The truck exercises a positive guidance and control over the Harrow, which follows it just as the rear wheels of a wagon follow the front wheels.

No one will will deny that the tongue as used on the ordinary Disc Harrow is more troublesome and less under control than the tongue on other implements. It is jerked violently from side to side by the motion of the Harrow, frets and worries the team, and is especially annoying in turning corners. The Fore-truck does away with all this. The team is easily managed and works quietly and evenly without being subjected to the pounding of the tongue and neck yoke. There is no neck weight and no side draft. The Harrow simply follows the truck.

The position of the Frame on the Foretruck is adjustable. This is important because to secure a uniform depth of cut the frame should be level with the surface to the ground. If the front end of the frame is too high the inside disc blades will cut too deep; if too low, the outside discs will cut too deep. When the frame is level all the blades cut alike, and uniform cultivation is secured. The Hitch also is adjustable, and may be made considerably lower than on a tongue Harrow, the lowest hitch hole being only 14 inches from the ground. The line of draft is consequently lower and the pull of the team therefore more effective. These adjustments of frame and hitch enable the operator to get the best and most effective work out of his machine with the least exertion on the part of his team.

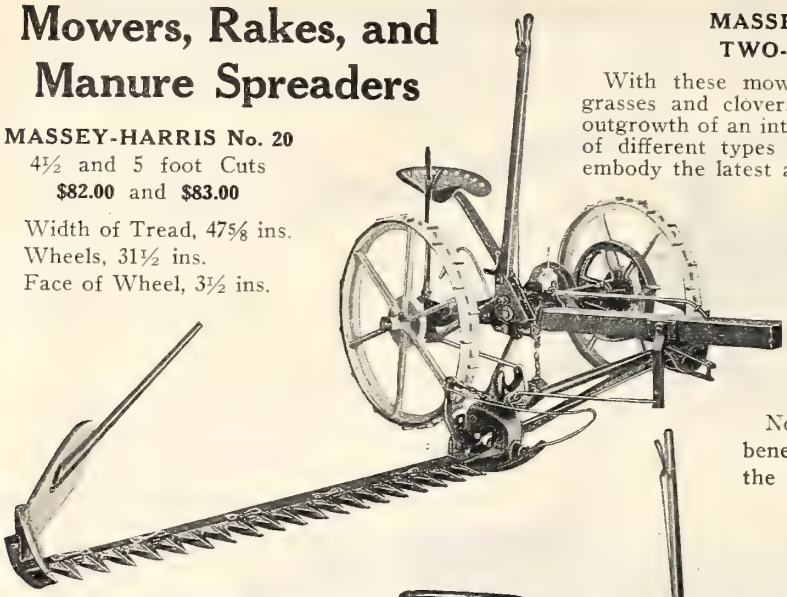
Mowers, Rakes, and Manure Spreaders

MASSEY-HARRIS No. 20

4½ and 5 foot Cuts

$82.00 and **$83.00**

Width of Tread, 47⅝ ins.
Wheels, 31½ ins.
Face of Wheel, 3½ ins.



MASSEY-HARRIS No. 20
TWO-HORSE MOWER

With these mowers you can cut all kinds of grasses and clovers to advantage. They are the outgrowth of an intensive study of the performance of different types under different conditions and embody the latest and most approved principles in mower building. The same general design is followed in each, but the No. 20 is only of a medium size, intended for farms on which the acreage of hay grown is of about the common average, while the No. 21 is a bigger, wider truck machine that is particularly well suited to heavier work.

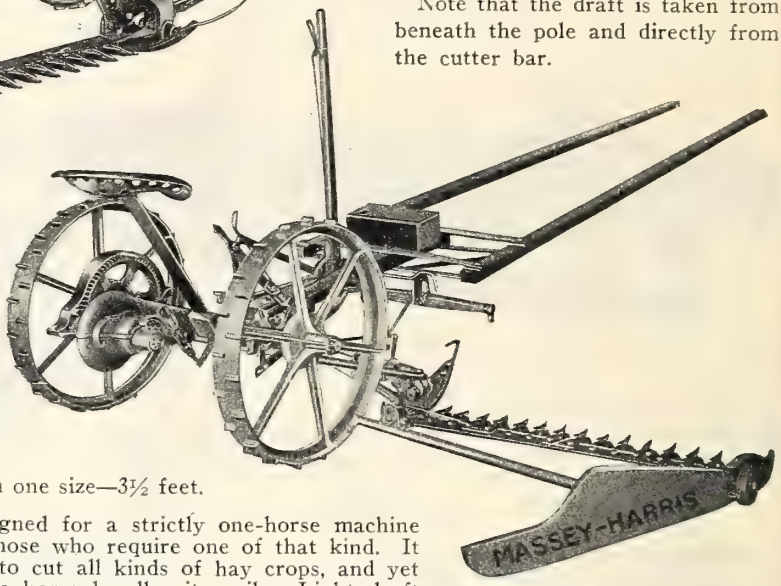
Note that the draft is taken from beneath the pole and directly from the cutter bar.

MASSEY-HARRIS No. 11
ONE-HORSE MOWER

Just the Machine for Small Farms, Parks, Lawns, and Golf Courses.

Price $80.00

Width of Tread, 39 inches.
Height of Wheel, 31 inches.
Face of Wheel, 4 inches.
Draws easily and is well suited to cutting both the short and long grasses.



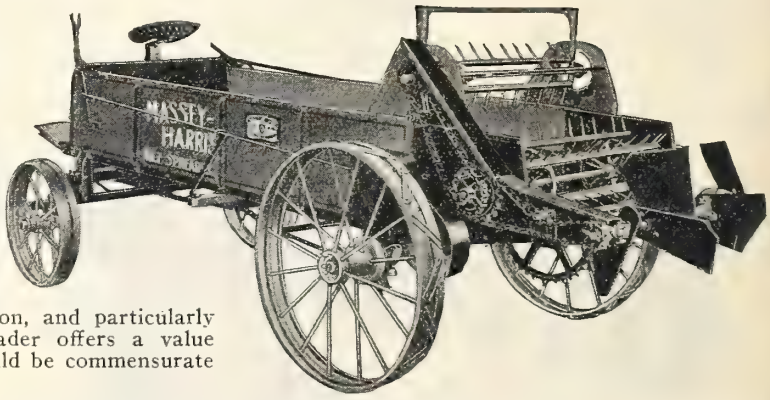
Built in the vertical lift style in one size—3½ feet.

This mower is especially designed for a strictly one-horse machine and well supplies the need of those who require one of that kind. It has ample weight and traction to cut all kinds of hay crops, and yet is of such construction that one horse handles it easily. Light draft is one of its salient features, and in combination with power and durability, makes it good equipment.

MASSEY-HARRIS No. 7
TWO-HORSE SPREADER

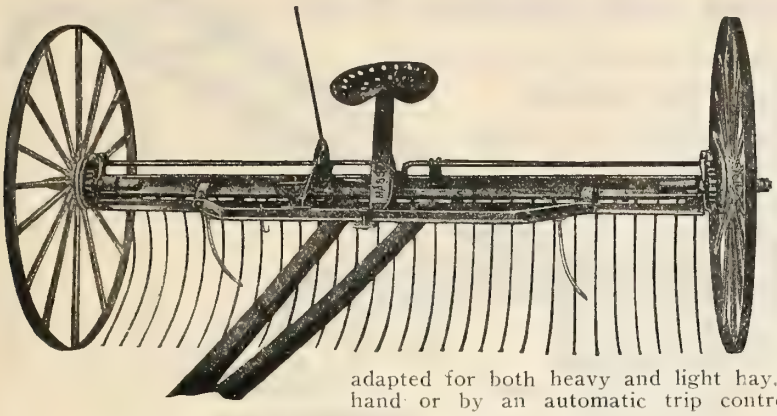
No. 7 Low Down Spreader..**$167.00**
Wheel Brake..... **6.00**
3-Horse Hitch Attachment for No. 7..... **2.25**

It is generally conceded that big profits will result from the use of any efficient Manure Spreader, but they are increased materially when the Massey-Harris No. 7 is employed. Light in weight and draft, but very strong and durable in construction, and particularly efficient in operation, this Spreader offers a value that is far greater than what would be commensurate with its cost.



Being lown down, narrow in width, and with a short wheel base, it meets the needs of the dairy farm in every respect. You can load it easily and you can take it right into your barns if you so desire.

ASK FOR COMPLETE MASSEY-HARRIS CATALOGUE



MASSEY-HARRIS STEEL HAY RAKE

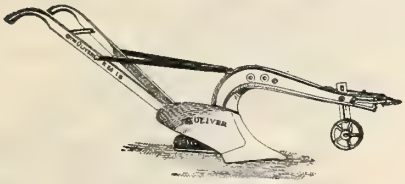
Built in 8-foot, 9-foot, 10½-foot, and 12-foot sizes, each of which is supplied with a combination thills and pole.

8-foot	**$43.00**
9-foot	**46.00**
10½-foot	**48.00**
12-foot	**50.00**

Strength, convenience of operation and efficient work in the field are pronounced features of this rake. It is built almost entirely of steel, well adapted for both heavy and light hay, and can be dumped either by hand or by an automatic trip controlled by the foot, as desired.

Contractors' Plows and Scrapers

THE No. 24 IRON-BEAM RIGHT-HAND CONTRACTORS' PLOW



Strong, heavy; furnished with either cast or steel cutter shares, with draft iron running from clevis to beam; with wheel jointer or hanging coulter as desired. Right hand only.

Price, **plain, $32.00; with wheel, $34.75.** These prices include one extra share.

HASLUP ROUND-BACK SOLID-PRESSED DRAG SCRAPER

Prices with Two Steel Runners

Size	Capacity	Weight	Price
No. 1L	7 cu. ft.	90 lbs.	**$11.00**
No. 2L	5 cu. ft.	80 lbs.	**10.50**
No. 3L	3½ cu. ft.	70 lbs.	**10.00**

RIVETED STEEL TRAY BARROW

Our No. 17B is built to meet the demand for a riveted tray.

The trays are made from a single sheet of annealed steel, pressed cold, lapped and riveted at the corners, thus giving extra strength where strength is most needed.

Handles of hardwood, and have flat steel brace around front of wheel for strength and front dumping.

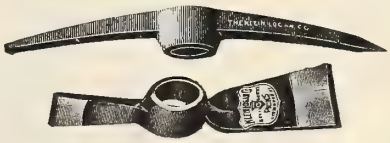
Steel wheel, 16-inch diameter; 1½x$\frac{5}{16}$-inch tire; eight ⅝-inch oval spokes.

Price, **each $7.50.** Special price in dozen lots.

PICK AND MATTOCK HANDLES

First Quality Hickory Pick Handles, retail	**$ .50**
1—Good Quality White and Red Hickory Pick Handles, retail price	**.45**
2—Mixed White and Red Hickory Pick Handles, retail price	**.40**

PICKS, MATTOCKS, AND GRUB HOES



No. 1—6 to 7, 7 to 8, and 8 to 9 pounds, Best Quality Warranted Steel Railroad Picks	**$1.00**
No. 1—5-lb. Best Quality War. Steel Mattock	**1.00**
Nos. 1 and 2—Warranted Steel Grub Hoes, ea.	**1.00**

WIZARD CONTRACTORS' PLOW, No. 65

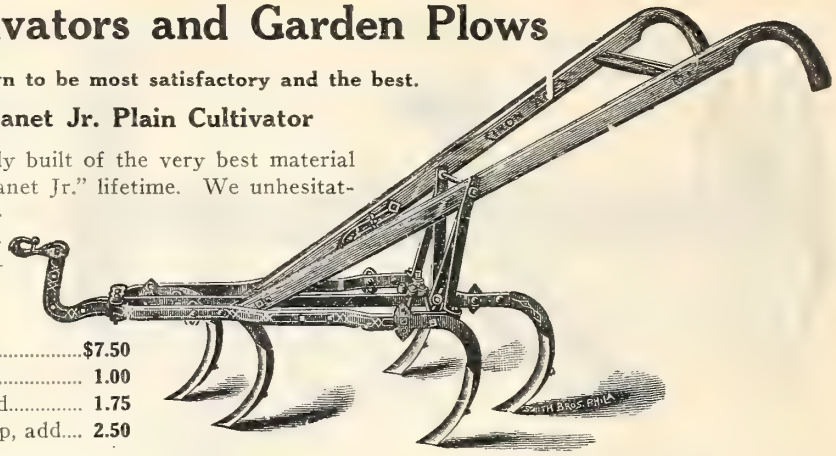
One of the best two-four horse contractors' plows. A great favorite. Hard iron wearing parts. Extra heavy beam, share and strip, steel wheel standard. Turn furrow 5 to 9 inches deep, 12 to 15 inches wide. For general grading purposes. Two to four horse. Weighs 185 pounds.

Price, with Wheel	**$32.00**
Chilled Share for 65 Wizard Contractors' Plow	**1.15**
Landside	**1.75**
Chilled Mouldboard	**5.50**

Cultivators and Garden Plows

These Tools are well known to be most satisfactory and the best.

No. 100-D—Planet Jr. Plain Cultivator



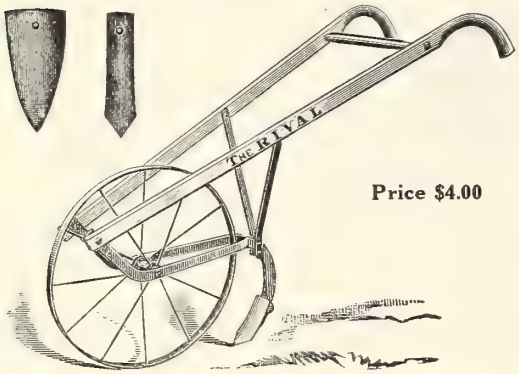
No. 100-D.—It is carefully built of the very best material and will last a regular "Planet Jr." lifetime. We unhesitatingly recommend this machine to all growers working crops on light, sandy soils.

No. 100-D, price as in cut.....**$7.50**
With Plain Wheel, add..... **1.00**
With Lever Expander, add..... **1.75**
With Horse Hoe and Sweep, add.... **2.50**

MALTA SHOVEL PLOWS

Single Shovel Plows.....**$4.50**
Double Shovel Plows..... **5.25**
Triple Shovel Plows..... **6.00**

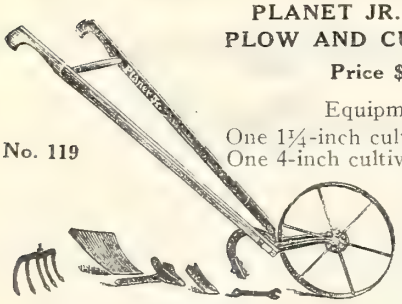
"RIVAL" GARDEN PLOW COMPLETE



Price $4.00

PLANET JR. GARDEN PLOW AND CULTIVATOR

Price $4.50



No. 119

Equipment:
One 1¼-inch cultivating tooth.
One 4-inch cultivating tooth.
One plow.
One reversible scuffle blade.
We can also furnish a special double mouldboard plow which can be used on this machine. Weight 16½ pounds; 24-inch Steel Wheel, 1½-inch rim.

No. 18 PLANET JR. SINGLE WHEEL HOE

The simplest equipment we offer and the cheapest for the work it does. It hoes completely all the space between 12 and 14 inch rows. It can be so changed that it can be used to cultivate both sides of a row, while the plants are small. **Price $5.25.**

FIRE FLY GARDEN PLOW—Price $4.25

No. 25

HILL AND DRILL SEEDER

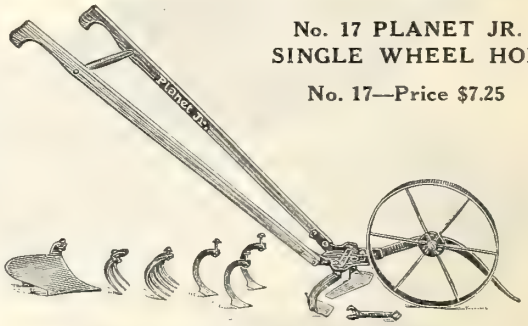
Double and Single Wheel Hoe Combined

Price $21.00

Known by thousands of users as the "Complete Gardener." Sows all vegetable seed in the drill and drops in hills 2, 6, 8, 12, and 24 inches apart, at the right depth and thickness and economically. As a Double Wheel Hoe it straddles the row, cultivating both sides at one time until the plants are 20 inches high. When used as a Single Wheel Hoe it does very effective cultivating on one side of each row and in between rows. Cultivating attachments consist of 1 pair of plows, 1 pair of 6-inch hoes, 4 steel cultivator teeth, and a pair of leaf lifters.

No. 17 PLANET JR. SINGLE WHEEL HOE

No. 17—Price $7.25



The No. 17 Single Wheel Hoe will do about the same variety of work as No. 12 Double, but is wider. Thousands of Market Gardeners and Home Gardeners buy them every year and there are more of them in use than any other tool of this kind. Equipment: 1 Garden Plow, 3 steel cultivator teeth, 1 pair of 6-inch hoes. The No. 17 will do practically all the work mentioned under the No. 12, and will do in one day work that would require several days with the old-style hand hoe.

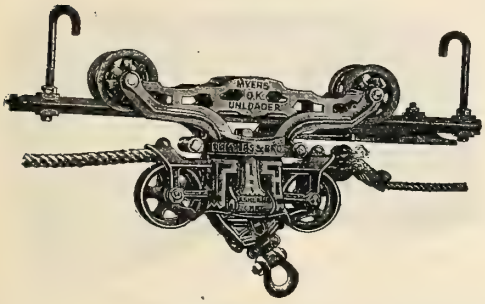
The Myers O. K. Hay Unloader and Barn Equipment

HARPOON HAY FORK

No. 1—Double Harpoon Hay Fork, 25-inch tines; retail..**$2.75**

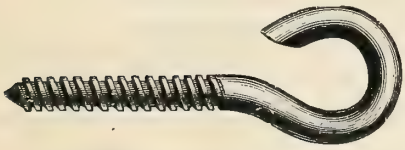
No. 1½ — Double Harpoon Hay Fork, 31-inch tines; retail..... **3.00**

STEEL TRACK UNLOADER



Price $9.00

FLOOR HOOKS



No. 5—Floor Hook, ¾-inch; retail, each.....**18c**
No. 5—Floor Hook, ⅝-inch; retail, each.....**15c**

KNOT PASSING PULLEYS

Price, each.....**75c**

IRON PULLEYS

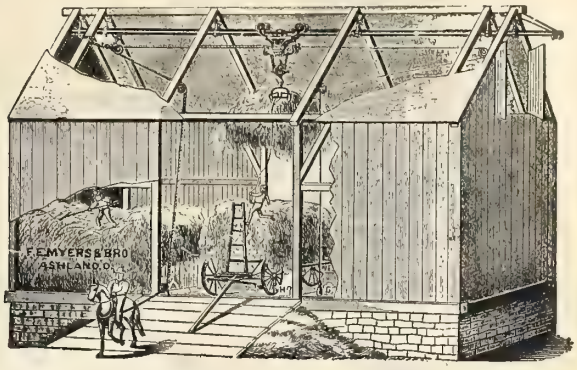
Price, each.....**65c**

STEEL TRACK FOR HAY CARRIER

Price, per foot.....**23c**

Write for prices on Rope

MATERIAL REQUIRED FOR A STEEL TRACK OUTFIT

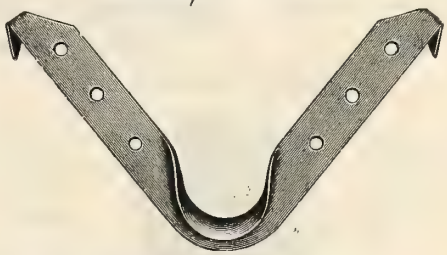


For a 40-Foot Barn—One Carrier, 40 feet of steel track, 21 hanging hooks, 21 rafter brackets, 5 knot passing pulleys, 1 D. H. fork, 6 floor hooks, 110 feet 13/16-inch manila rope, 40 feet ⅜-inch reverse rope.

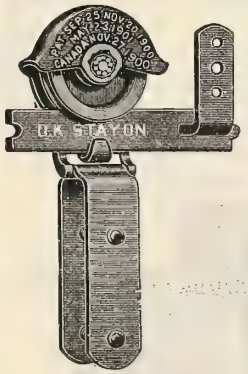
For a 50-Foot Barn—One Carrier, 50 feet of steel track, 25 hanging hooks, 25 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 130 feet 13/16-inch manila rope, 50 feet ⅜-inch reverse rope.

For a 60-Foot Barn—One Carrier, 60 feet of steel track, 31 hanging hooks, 31 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 160 feet 13/16-inch manila rope, 60 feet ⅜-inch reverse rope.

RAFTER BRACKETS



Rafter Brackets, steel; retail, each.....**6c**
Rafter Brackets, malleable; retail, each.....**6c**



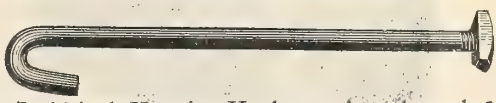
O. K. BARN DOOR HANGERS

$1.25 per set

BARN DOOR TRACK

12c per foot

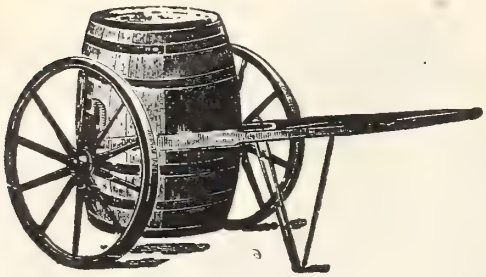
WOOD TRACK HANGERS



No. 7—14-inch Hanging Hook, wood track, each **15c**
No. 8—Hanging Hook Steel Track; retail, each **15c**

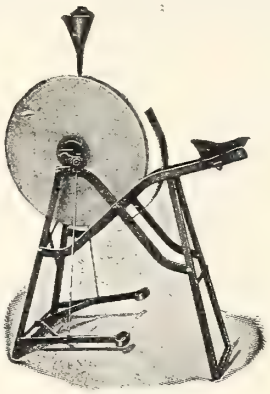
Water Truck, Grindstone, Mail Box

WATER TRUCK AND BARREL



Plain Truck and Barrel, 1½-inch Tires.....**$18.00**
Truck alone, 1 pair Trunnions..... **13.00**
Pair of Trunnions alone..... **.90**

CYCLE BALL-BEARING STEEL-FRAME GRINDSTONE



R. W. Cycle Ball Bearing Steel-Frame Grindstone is one of the strongest built, and is practically indestructible.

Price.....**$8.50**

Loose Grindstones, 30 to 60 lbs; price, per lb..... **.05**

CORN BASKETS

1-Bushel Basket Rope Handle

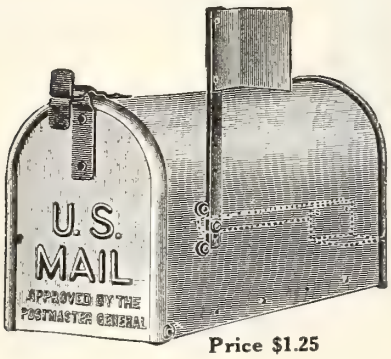
Iron Straps like cut

$1.25

1-bushel Rattan Basket, plain.....**$1.00**
1½-bushel Rattan Basket, plain..... **1.25**
2-bushel Rattan Basket, plain..... **1.50**
3-bushel Rattan Basket, plain..... **2.25**
1-bushel Rattan Basket, iron strap..... **1.25**
1½-bushel Rattan Basket, iron strap..... **1.50**
2-bushel Rattan Basket, iron strap..... **1.75**

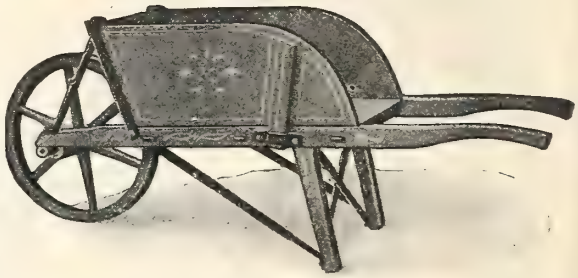
Special price on dozen lots.

RURAL MAIL BOX No. 1



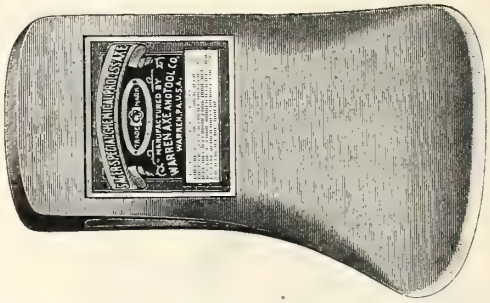
Price $1.25

BUCH'S GARDEN BARROWS



No. 1—Large Garden Barrow.....**$9.00**
No. 3—Medium Garden Barrow..... **7.50**
No. 4—Boys' Barrow..... **5.00**

KELLY AXES



Our axes are of best quality. We only sell those we know to be first class, and have an established reputation.

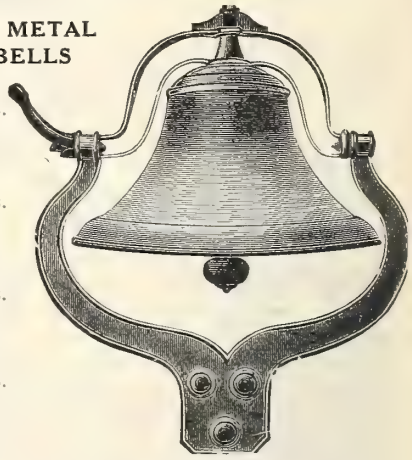
Kelly Single Bit—4 to 4½ lbs., 4 to 5 lbs., 4½ to 5½ lbs.; each.....**$1.75**
Kelly Single Bit Axes, handled..... **2.25**

BINDER TWINE

It is impossible to give the price of Binder Twine in advance, as the price is subject to market change.

FODDER YARN—Prices on application.

CRYSTAL METAL FARM BELLS



No. 1—40 lbs.
15 inches
Price $4.00

No. 2—50 lbs.
17 inches
Price $5.00

No. 3—75 lbs.
19 inches
Price $7.50

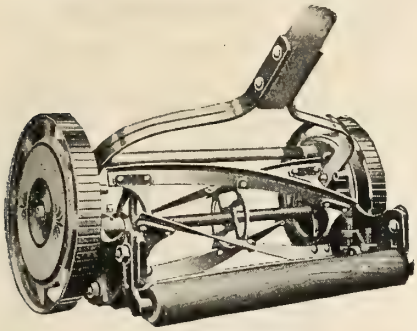
No. 4—100 lbs.
21 inches
Price $10.00

AXE HANDLES

Excelsior — Extra Selected Second Growth All White Hickory Axe Handles.....**$ .45**
No. 1—Selected White Hickory Axe Handles.... **.40**
No. 2—White and Red Hickory Axe Handles.... **.35**

Lawn Mowers and Hedge Shears

COLDWELL'S IMPERIAL HIGH WHEEL LAWN MOWERS



14-inch High Wheel Mower.....$18.00
16-inch High Wheel Mower..... 19.00
18-inch High Wheel Mower..... 20.00
20-inch High Wheel Mower..... 22.00

LAKEWOOD LAWN MOWERS

Bearings—High grade balls and cone; adjustable.
Wheels—9 inches, solid style, eight spokes.
The best all-around ball-bearing mower to be had at a moderate price. Best known and biggest seller of any mower in America in its class.

14-inch Cut.....$11.00 16-inch Cut.....$11.50

DERBY BALL-BEARING HIGH-WHEEL LAWN MOWER

The increased height of the wheels is made to meet the popular demand for a wheel larger than the regulation size at the lowest possible cost. It has open cylinder, cast-steel hardened and tempered cutting knives, improved rachet and good adjustment.

12-inch **$11.00** 14-inch **$11.50** 16-inch **$12.00**

BLACK CORRUGATED MOGUL HOSE

5/8-inch in 25-foot length, coupled.....$3.75
5/8-inch in 50-foot lengths, coupled..... 7.50
Cut Lengths, per foot..... .15
Couplings, per set..... .20

GARDEN HOSE AND SPRINKLERS

3/8-inch Oriole Spray Hose, cut lengths, per ft..$ .15
Steel Hose Reels..... 3.00
Brass Spray Nozzles..... .75
Brass Ring Lawn Sprinkler..... .80
Pluvius Lawn Sprinkler..... 2.25
Rain King Lawn Sprinkler..... 3.50

CYCLONE SPRINKLER

Ground joint head. Head and arms finished brass, stem japanned red. Base japanned black with swivel hose connection. One of the most popular sprinklers on the market. Mailing weight 3 lbs. **Each**....$2.50

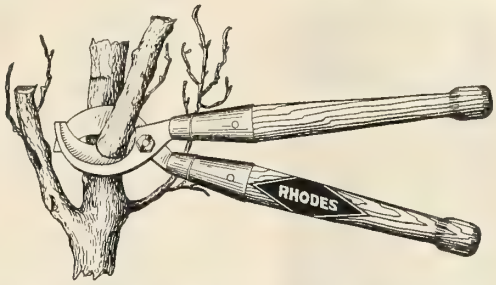
RING SPRINKLER

One of the most popular Sprinklers on the market; made of heavy sheet brass with performations arranged to give rainlike effect. No parts to wear or lose. Mailing weight 1 lb. **Each**.....$1.00

MOWER GRASS CATCHERS

For 12, 14, and 16 inch.....$2.25
18 and 20 inch..... 2.50

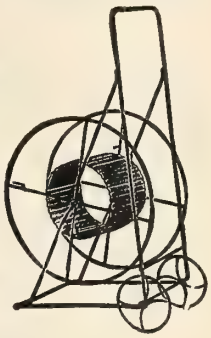
RHODES DOUBLE-CUT LOPPING SHEARS



For trimming trees, bushes, heavy shrubbery, etc. Makes an absolutely clean, perfect cut; 26 and 30 inch handle. Parcel Post weight 5 pounds. Price, each.....$4.50

STEEL HOSE REEL

Price, each, $3.00



GEM SPRAY NOZZLE

Heavy cast brass nozzle, giving spray, straight stream, and positive shut-off. Spray formed in barrel of nozzle, and full circle-spray guaranteed. Price.....65c

PRUNING SHEAR

This Shear has a positive draw or sliding cut. The hook and blade are made from solid tool steel and firmly held together by a bolt with lock nut. Furnished with shellaced handles, reinforced by 4-inch pressed steel polished ferrule and cap. Handles riveted to Shear. No. 5400, 24-inch, each.....$3.25

ALTO TREE PRUNER

24 and 30 inch handle. A good serviceable and durable pruner. Price, each.....$2.25

HEDGE SHEARS

Ladies' Hedge Shears, 8-inch V. B.....$2.25
8-inch Hedge Shears (Notched)..... 2.25
9-inch Hedge Shears (Notched)..... 2.50
10-inch Hedge Shears (Notched)..... 2.75

Witt Cans and Lawn Weeders

WITT CORRUGATED CANS

No. 1—Capacity 20 gals., each.....**$4.00**
No. 2—Capacity 27 gals., each..... **4.50**
No. 3—Capacity 33 gals., each..... **5.50**

WITT PAILS

No. 7—Capacity 5 gals., each.....**$1.75**
No. 8—Capacity 6½ gals., each..... **2.00**
No. 9—Capacity 8¼ gals., each..... **2.25**
No. 9½ Can—Capacity 10 gals., ea. **2.50**
No. 10 Can—Capacity 12¼ gals., ea. **3.25**

BRIGHTON PAILS

No. 02—Capacity 7 gals., each.....**$1.25**
No. 03—Capacity 10 gals., each..... **1.50**
No. 04—Capacity 11¾ gals., each.... **1.65**

BRIGHTON CANS

No. 77—Capacity 20 gals., each.....**$2.50**
No. 78—Capacity 25 gals., each..... **2.75**

REDDICK MOLE TRAPS

The Mole causes great loss and annoyance to the growers and market gardeners. One Mole can cause the loss of an entire seed bed in a few hours. One Mole Trap will catch and destroy them. We guarantee them to work satisfactorily. Price, each.....**90c**

POT AND TREE LABELS—PAINTED

3½-inch Painted Tree Labels with wire

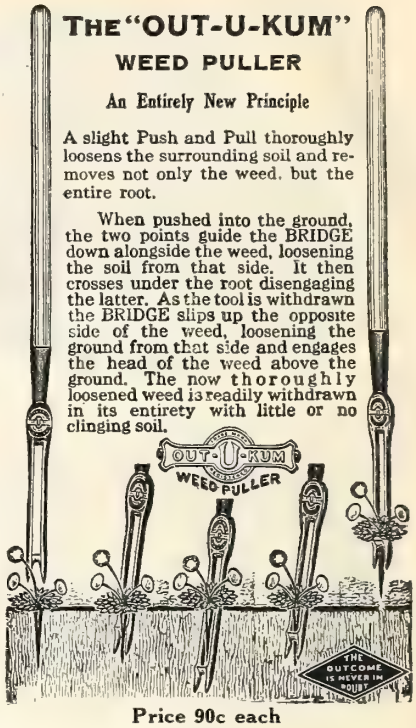
100 35c, 500 $1.50, 1,000 $2.50

THE "OUT-U-KUM" WEED PULLER

An Entirely New Principle

A slight Push and Pull thoroughly loosens the surrounding soil and removes not only the weed, but the entire root.

When pushed into the ground, the two points guide the BRIDGE down alongside the weed, loosening the soil from that side. It then crosses under the root disengaging the latter. As the tool is withdrawn the BRIDGE slips up the opposite side of the weed, loosening the ground from that side and engages the head of the weed above the ground. The now thoroughly loosened weed is readily withdrawn in its entirety with little or no clinging soil.



Price 90c each

Green Painted Round Plant Stakes

HEAVY PLANT STAKES

3 feet, Heavy or Dahlia—
Each 12c, per doz. $1.15, per 100 $8.60
4 feet, Heavy or Dahlia—
Each 15c, per doz. $1.55, per 100 $11.40
5 feet, Heavy or Dahlia—
Each 20c, per doz. $2.25, per 100 $14.60

LIGHT PLANT STAKES

2 feet, Light—**Each 4c, per doz. 40c, per 100 $2.80**
3 feet, Light—**Each 8c, per doz. 75c, per 100 $5.40**

SPRINKLER

No. 42—2 qt. can, each.....$ .40
No. 44—4-qt. can, each..... .50
No. 216—6-qt. can, each..... .75
No. 218—8-qt. can, each..... .90
No. 220—10-qt. can, each..... 1.10
No. 222—12-qt. can, each..... 1.25
No. 226—16-qt. can, each..... 1.40

MORE HANDY TRUCK

Adopt the New Way—Save Your Back

Wheel the ashes and rubbish from cellar to curb and keep the steps, walk and yourself free from dust and dirt. Solve your ash day problem. Price, each.....**$3.75**

PRUNING SHEARS.—75c to $2.00 each.

PRUNING SAWS.—$1.50 to $2.50 each.

GARDEN TROWELS.—20c to 75c each.

NORCROSS WEEDER.—The best tool for garden use. 3-tine, **75c each.** 5-tine, **$1.00 each.**

We also carry a full line of Garden Rakes, Hoes, and Spades.

Well Pumps, Buckets and Chains

MYERS WELL PUMPS

No. 1052 Myers Cog Gear Lift Pump.—Brass lined cylinder, glass valve seat. Capacity 400 gallons per hour. **Price $11.50.**

No. 1072 Myers Cog Gear Single-Acting Force Pump.—3-inch brass lined cylinder, glass valve seat. Capacity 400 gallons per hour. **Price $13.00.**

No. 5 Myers 3-Way Windmill Head Double-Acting Force Pump.—3x12-inch brass lined cylinder. Capacity 440 gallons per hour. **Price $23.00.**

1¼-Inch Galvanized Pipe.—Per foot **22c.**

⅜-Inch Galvanized Rod. — Per foot **6c.**

1¼-Inch Foot Valve.—Each **$1.25.**

We carry repairs in stock for these pumps.

In ordering a pump give us exact distance from platform to bottom of well; also the number of feet of water in well.

BUCKEYE WOOD PUMPS

Porcelain Lined—Are Recommended as the Best and Most Satisfactory in All Cases

No. 0 STOCK PUMPS

7-in. square, 4-in. bore, porcelain lined, 6 ft.....**$12.75**

No. 1 FAVORITE HOUSE PUMPS

6-in. square, 3½-in. bore, porcelain lined, 6 ft..**$10.50**

No. 2 CISTERN PUMP or SPRING PUMP

5-in. square, 3-in. bore, porcelain lined, 6 ft.....**$8.50**
No. 1, 4x4 Tubing, per foot..... **.32**
No. 1 Couplings, each..... **.90**
No. 0, 4-inch Bucket, each..... **1.25**
No. 1, 3½-inch Bucket, each..... **1.00**
No. 2, 3-inch Bucket, each..... **.80**

IMPROVED CLOSED-TOP PITCHER-SPOUT PUMP

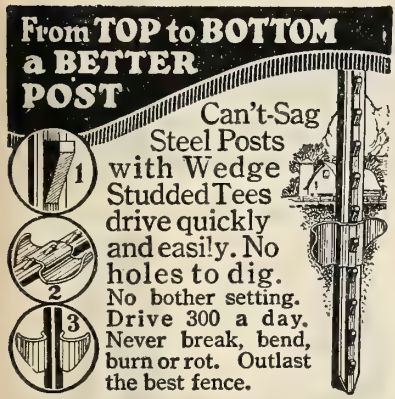
Price, No. 2.....**$2.75** Price, No. 3.....**$3.00**
Brass Jacket Drive Well Points..... **2.25**

WELL BUCKETS, CHAINS, AND WHEELS

King Well Bucket (wood), each.....**$1.25**
Crown Well Bucket (wood), each..... **1.00**
Galvanized Well Bucket, each..... **1.00**
Well Wheels, each..... **1.00**
Galvanized Well Chain, per foot..... **.06**

We carry a complete line of Parts and Repairs for Wood Pumps. In ordering a Wood Pump give us the exact distance from the platform to bottom of well.

Wire Fence, Posts, Gates, and Wire Stretchers

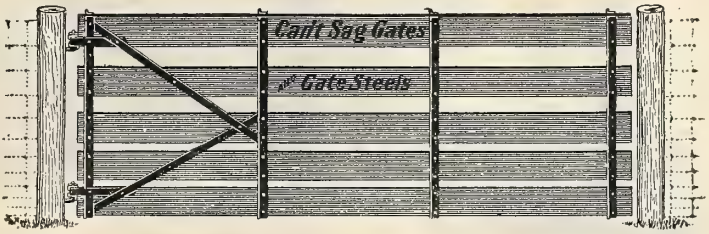


"Can't-Sag"
Studded Tee Posts

—are the only ones having these three great improvements.

1. **Easy Driving Wedge Studded Tee.**
2. **Balanced Corrugated Anchor Plate.**
3. **Re-enforcing Collar formed by hot-set Anchor Plate applied under terrific pressure.**

No holes punched in post. Extra large Anchor Plate grips "tee" over 3 in. on each side—no rivets used. Balanced Anchor Plate makes it easy to drive posts straight. Come in and see this better fence post.



"Can't-Sag" Studded Tee Fence Posts

No. 200, 5-ft. Steel Posts, each **55c**
No. 260, 6-ft. Steel Posts, each **65c**
No. 265, 7-ft. Steel Posts, each **70c**
No. 270, 7½-ft. Steel Posts, each **80c**

"CAN'T-SAG" BOARD GATES

52 inches high, 12-foot opening; painted.
Complete, price.....**$10.00**

CORNER, END, AND GATE POSTS

No. 24—End, 7-foot 8-inch Post **$3.50**
No. 27—Corner, 7-foot 8-inch Post..... **6.00**

AMERICAN FARM FENCE Per Rod

No. 726X12 Hog Fence, Spec. No. 12½.....**$ .35**
No. 726X12 Hog Fence, Spec. No. 11..... **.50**
No. 832X12 Hog Fence, Spec. No. 11..... **.50**
No. 845X12 Stock Fence, Spec. No. 11..... **.50**
No. 1047X12 Stock Fence, Spec. No. 12½..... **.50**
No. 949X12 Stock Fence, Spec. No. 11..... **.50**

BARBED WIRE

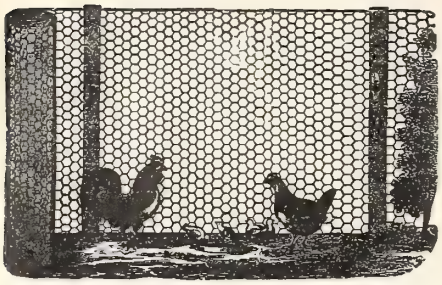
Cattle Wire—6 inches between barbs; 80 rods.....**$4.50**
Hog Wire—4 inches between barbs; 80 rods..... **4.50**

TOWNSEND WIRE STRETCHER.—Price $2.00.

LOTT STRETCHER.—Clamp Bars made of reinforced with half-oval iron to keep wire from slipping. Lott Stretcher furnished complete except lever. Use for this purpose an old piece of pipe or level cut from wood. Price.....**$9.00**

Poultry Netting and Lawn Fence

GALVANIZED POULTRY NETTING FOR ENCLOSING POULTRY YARDS



The Wire we offer is all Nos. 19 and 20 double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

No.	Width	Sq. Ft.	Per B.	No.	Width	Sq. Ft.	Per B.
20	12x1 in.	150	**$3.00**	20	12x2 in.	150	**$1.28**
20	18x1 in.	225	**4.25**	20	18x2 in.	225	**1.85**
20	24x1 in.	300	**5.45**	20	24x2 in.	300	**2.35**
20	36x1 in.	450	**7.40**	20	36x2 in.	450	**3.20**
20	48x1 in.	600	**9.90**	20	48x2 in.	600	**4.28**
20	60x1 in.	750	**12.35**	20	60x2 in.	750	**5.35**
				20	72x2 in.	900	**6.42**

Special price in large quantity. Price 2x20 nettings 1c per sq. ft. in less than bale lots. **Staples for fastening, 10c per lb.** 1x20 nettings 2c per sq. ft. less than bale lots.

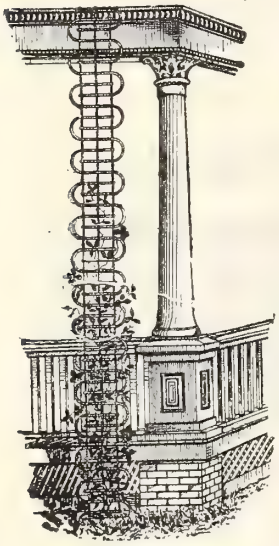
ORNAMENTAL WALK GATES

Height	3-Foot Opening	3½ Feet
36 inch	**$3.75**	**$4.00**
42 inch	**4.00**	**4.25**
48 inch	**4.25**	**4.50**

ORNAMENTAL DOUBLE DRIVE GATES

Height	8-Foot Opening	10 Feet
36 inch	**$9.00**	**$10.00**
42 inch	**9.50**	**10.50**

All gates have ornamental tops.



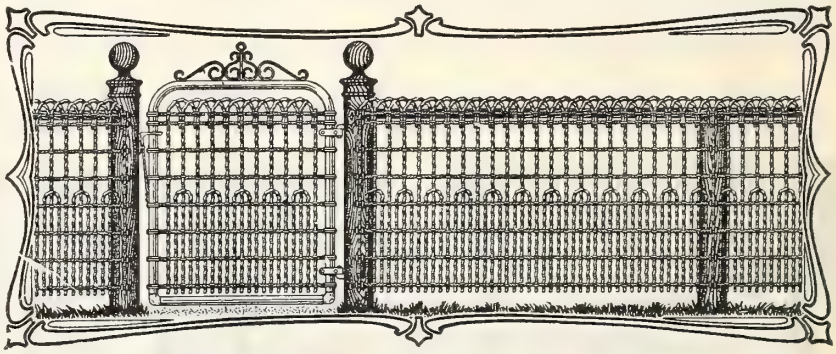
SINGLE TRELLIS

Made 18 inches wide

Price per running foot **10c**

FLOWER GUARD

Height 22 inches. **Price per running foot 10c.** Special prices in large quantities.



CYCLONE LAWN AND GARDEN FENCE

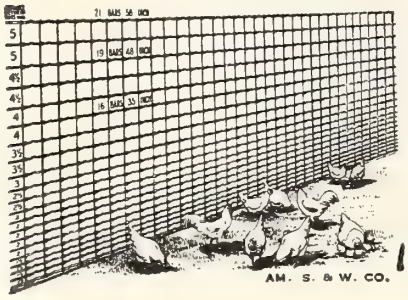
36-inch, Style F—
Per foot.....**13c**

42-inch, Style F—
Per foot.....**15c**

48-inch, Style F—
Per foot.....**18c**

GIBBS POST HOLE DIGGER

Price, each, $2.50



AMERICAN POULTRY, GARDEN, AND RABBIT FENCE

Designs 2158 and 1948

10-Rod Roll No. 1948 Fence.	Price	**$6.05**
20-Rod Roll No. 1948 Fence.	Price	**11.60**
10-Rod Roll No. 2158 Fence.	Price	**6.75**
20-Rod Roll No. 2158 Fence.	Price	**13.00**

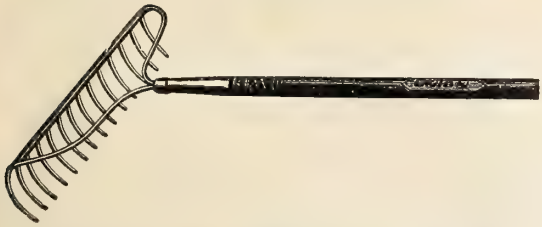
Garden Tools and Step Ladder

GARDEN HOE

Sizes for Boys, Ladies, and Men

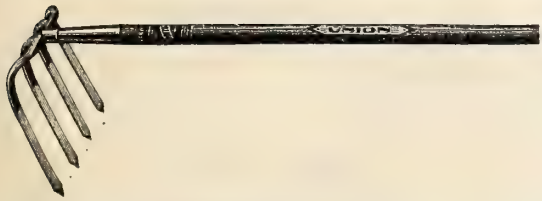
6, 7, and 7½ inch.....**75c** and **$1.00**
8-inch **1.00**

STEEL GARDEN RAKES



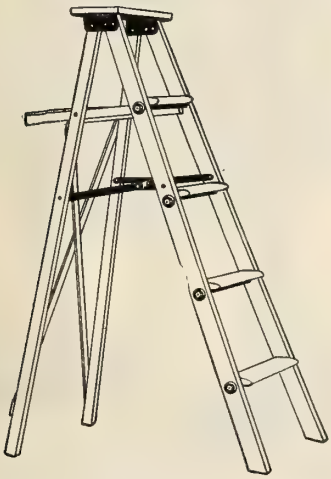
Cut from One Piece of Steel—Strong and Durable
Prices.....**60c** to **$1.25**

POTATO DRAG or HOE



4-tine Fork.....**$1.25**
5-tine Fork..... **1.50**
6-tine Fork..... **1.75**

STEP LADDER



Strongest and best Ladder. Made of ash; fine finish. Each step is braced and bolted. Only safe ladder to use 10 feet or over.

5-foot, each	**$2.50**	8-foot, each	**$4.00**
6-foot, each	**3.00**	10-foot, each	**5.00**
7-foot, each	**3.50**	12-foot, each	**6.00**
14-foot, each	**$7.00**		

SCYTHES

English Blades, each.....**$2.50**
American Blades, each..... **1.75**

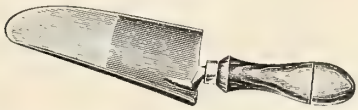
DIBBLES for Transplanting.—Each.....**60c** and **75c**

TURF EDGERS.—Each.....**$1.50**

SPADING FORK

Price, each.....**$1.50** to **$2.00**

TROWELS



Steel Garden Trowels, each.....**50c** and **75c**
Galvanized Trowels, each.....**25c**

ASPARAGUS KNIFE

This knife makes a fine weeder as well.
Price.....**50c** and **60c**

HOOVER LAWN RAKE

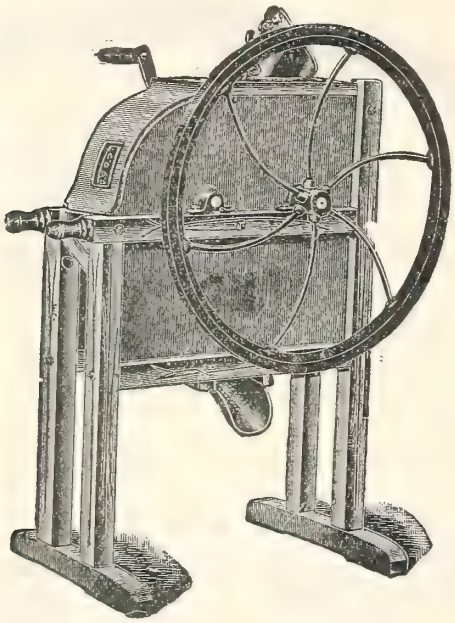
The teeth of the **Hoover Lawn Rakes** are made of flexible steel spring wire and will fit into any irregularities on the surface of the ground, taking all leaves, dead grass or refuse without injury to the living grass.

The Hoover Rake makes a clean sweep 20 inches wide with a motion similar to that used in sweeping with a broom, and is very highly recommended by Park Boards and Cemetery Caretakers, some claiming to save 50 per cent in raking costs.

Price, each.....**$1.00**
Dozen **10.00**

Miscellaneous Farm Tools

BUCH'S CORN SHELLER No. 3—ONE HOLE



Our No. 3 is our highest standard round end sheller. Made of hardwood. Joints mortised and fully bolted. It is strong, rigid, and lasting. The hopper is adjustable and takes almost any sized ear. It cleans the cob of all the grains, deposits the corn from the center, throws the cob out at end, and separates the chaff from the grains with a sieve. Weight about 125 pounds. Capacity about 125 bushels per day. Price.....**$14.00**

MODERN TOOL GRINDER

J-4, 4-in. wheel, price.....**$2.75**
J-5, 5-in. wheel, price..... **3.25**

CLAMP VISE

No. M743, width of jaw 2 inches, price.....**$2.25**
No. M744, width of jaw 2¼ inches, price..... **2.50**
No. M745, width of jaw 2½ inches, price..... **2.75**

DIETZ LANTERNS

Dietz Victor Lantern.....**$ .85**
Dietz Victor Red Lantern..... **1.10**
Dietz Regulation Lantern for Wagons..... **2.00**
Dietz D-Lite Lantern (can't blow out)..... **1.50**
Dietz Little Wizard (can't blow out)..... **1.10**

APACHE GRIST MILL

This mill makes best corn meal, graham flour, rye flour, chops, hominy, cracks peas, grinds coffee, spices, etc. Perfect adjustment for fine or coarse work. It will grind a quart of meal in three minutes. Price.....**$7.50**

RED CHIEF GRINDING MILLS

No. 1—For small poultry raisers, price.....**$4.00**
No. 2—Best crank mill on earth. Feed gauge to regulate grinding, price..... **5.50**
No. 5—With large capacity, feed gauge, and fly wheels. Clamps to box. Price..... **7.75**
No. 10—With feed gauge, fly wheel, and handsome stand to screw on table; price..... **9.50**

"BLACK HAWK" CORN SHELLER

Original in every feature; never breaks or fails to do good work; shells fast, shells easily. Price **$3.00.**

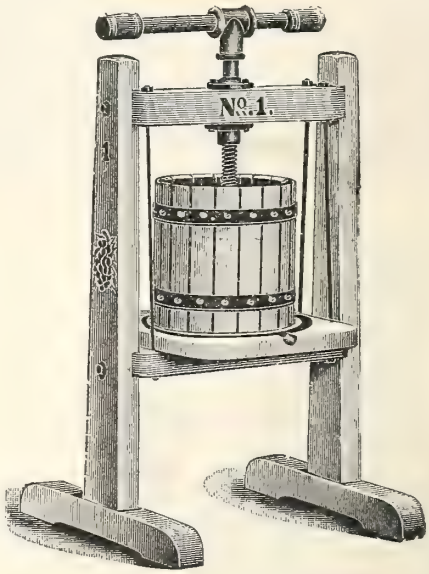
MODEL G SICKLE AND TOOL GRINDER

Machine is equipped with nickel-plated adjustable tool rests. Grinding wheels are not emery, but a very high grade manufactured abrasive of medium fine grit, which will cut fast under light pressure of tool. This eliminates chances of drawing temper. Equipped with beveled sickle wheel and universal tool grinding wheel. Price **$7.50.**

SCYTHE STONES

Radiac, each.....**15c**
English Round, each.....**30c**
Darby Creek, each.....**20c**

BERRY PRESS



These presses are built heavy like the apple mills. The frame is strong and rigid. The heavy screw wheel with long lever gives greater power in pressing out the juice.

No. 1.....**$15.00**
No. 2..... **17.00**
No. 2½..... **18.00**

Wizard TRADE BRAND MARK Sheep Manure

For Lawns

Flowers

Vegetables

Field Crops

THE REAL SECRET in making plants grow to perfection lies in preparing a rich fertile soil. Plants require a generous supply of plant food and a loose mellow soil to develop their real beauty. So if you want a beautiful lawn and garden or big profitable crops be sure to make your soil rich and fertile.

Wizard Sheep and Cow Manures are concentrated, weedless manures that make all plants grow to perfection. They are not chemical stimulants, but are real soil building plant foods, safe and dependable for every use. They supply the necessary humus and plant food to put new life into worn-out soils. Wizard Manures are economical—**one bag equals a whole wagon load of stable manure.** They have a lasting beneficial effect on your soil. Every one can get results with Wizard.

MOST DEPENDABLE FERTILIZER FOR LAWNS AND GARDENS

A PROFITABLE FERTILIZER FOR THE FRUIT AND VEGETABLE GROWER

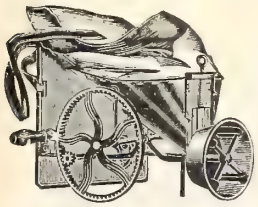
Lawns Wizard Sheep Manure produces a thick velvety green turf of lasting beauty. Make an application early in Spring and you will be surprised at the new beauty it will develop. On new lawns broadcast 10 pounds to every 100 square feet and rake into the surface soil. To renew old lawns, rake well and broadcast 6 to 10 pounds per 100 square feet. Avoid weeds by using Wizard.

Flower Gardens Luxuriant green foliage and a wealth of vivid colored flowers are the result of feeding your plants with Wizard. In making new plantings be sure the soil under the roots is made rich and fertile. Light applications during the growing season will put new life into your plants and prolong the blooming period. A handful mixed well with the soil under each plant will insure strong rugged growth. Broadcast 10 pounds per 100 square feet of garden soil.

Vegetables and Fruit If you want a big crop of crisp, tender vegetables, be sure to use Wizard. Every practical gardener knows that there is nothing better than manure to grow big crops of vegetables. Fruit crops respond quickly to this natural plant food. It improves the yield, color and flavor.

Florists Wizard Sheep and Cow Manures have been the standard of quality for eighteen years. For feeding and liquid manuring Wizard is unexcelled. Shredded Cow Manure makes an ideal mulch and supplies sufficient plant food to grow big crops of highest quality. It is unexcelled for roses. You need manure to grow plants at a profit and it pays to use Wizard.

2-lb. pkg. 15c, 5-lb. pkg. 30c, 10-lb. pkg. 60c,
25-lb. bag $1.00, 50-lb. bag $1.75, 100-lb. bag $2.75.
COW MANURE, 100-lb. bag, $3.00



CAHOON BROADCAST SEED SOWER.—For sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, etc. Standard Seeder of the World. The breadth of the cast will be according to the weight of the seed. Wheat and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 feet. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet. Parcel Post weight, 8 pounds. Our Special Price, **$4.50.**

CYCLONE SEED SOWER.—Very popular seeder and very extensively sold. This sower is guaranteed to distribute seed perfectly, evenly, and will not throw seed in an upward direction or against the operator, but direct and evenly to the land. Sows clover, timothy, red top, or herd's grass, alfalfa, oats, rye, wheat, millet, buckwheat, turnip and other varieties of farm seeds. Price **$2.25.**

LIGHTNING (HORN) SEEDER.—Price **$1.00 each.**

ONTARIO DRILL COMBINED (GRAIN AND FERTILIZER), SINGLE DISC DRILL.—The Ontario Disc Drill embodies all the special features of our Standard Hoe Drill, excepting discs are used instead of hoes. It has the same broad tread wheels, the same accurate grain and fertilizer feeds, the same heavy axle, the same simple speed devices, the same accurate grass seeder and land measure, and the same light draft. Price on application. Write for Drill Catalogue.

THE ONTARIO LIME SOWER, STYLE "G".—8 feet. Price **$75.00.**

Contents — 1928 Garden Book

VEGETABLE SEED

Asparagus 4

Beans, Bush 2, 4, 5
Wax 5
Pole 5
Lima 2, 5
Beets, Table 6
Cattle 6
Brussels Sprouts 9

Cabbage 7, 8
Cantaloupe 3, 14
Carrot 9
Cauliflower 10
Celery 10
Celeriac 10
Chicory 9
Collards, Georgia 9
Corn Salad 9
Corn, Sugar 2, 12
Cress 8
Cucumber 2, 11

Dandelion 9

Egg Plant 11
Endive 12

Kale 12
Kohl Rabi 12

Leek 13
Lettuce 3, 13

Mustard 13

Okra 16
Onion 15
Onion Sets 16

Parsley 16
Parsnip 16
Peas 3, 18, 19
Pepper 17
Potatoes 17
Pumpkins 18

Radish 19, 20
Rhubarb 20

Salsify 21
Spinach 21
Squash 21
Swiss Chard 6

Tomato 3, 22
Turnip 22
Watermelon 15

FLOWER SEEDS
Pages 23 to 26
FIELD SEEDS
Pages 29 to 32

LAWN SEEDS
Inside Back Cover Page

BULBS, PLANTS AND ROOTS

Asparaguso Roots 4

Caladiums 27
Cannas 27

Dahlias 27

Gladiolus 27

Rhubarb Roots 20

Tuberoses 27

Vegetable Plants 8, 17

HORTICULTURAL AND DAIRY SUPPLIES

Ash Cans 50
Asparagus Knives 4, 53
Axes 48

Barn Door Equipment 47
Barrows, Contractors 45
Garden 48
Baskets 48, 53
Bell, Farm 48
Buckets 41

Calf Weaner 41
Carbola 38
Cart, Push 41
Cel-O-Glass 39
Churns 41
Corn Sheller 54
Cultivators 46
Culture 28

Dibbles 53
Dog Food 41
Drills 56

Fence, Lawn 52
Posts 51
Poultry and Rabbit 52
Stretcher 51
Fertilizers 33, 55
Flower Bed Guard 52
Flower Pots 33
Fork, Spading 53
Fruit Presses 54

Garden Tools 53
Gates 51, 52
Grass Catcher 49
Grinding Mills 54

Handles 48
Harrows 42, 43

Hedge Shears 49
Hoes 45, 53
Hose, Garden 49
Nozzles 49
Reels 49

Insecticides 34, 35

Ladder, Step 53
Lanterns 54
Lawn Mowers 49
Rollers ..... Inside Back Cover
Sprinklers 49
Lime Sower 56

Mail Boxes, Rural 48
Manure Spreader 44
Mattocks 45
Mole Traps 50
Mowers, Horse 44

Pails, Witt 50
Picks 45
Plant Foods 20, 28
Plant Stakes 50
Planter's Guide 1
Plows 37, 42, 45, 46
Posthole Digger 52
Potato Drag 53
Pruner, Tree 37, 49
Pruning Saws 50
Shears 50
Pulverizers 42
Pump and Well Equipment 51

Rakes, Garden 53
Hay 45
Roller, Land 42
Roofing, Paper 40

Scraper, Drag 45
Scythes 53
Scythe Stones 54
Seed Sower 56
Sprayers 36, 37
Sprinklers 50
Stones, Grind 48

Thermo Fountains 40
Tree Labels 50
Trellis Wire 52
Trowels, Garden 53
Tool Grinders 54
Twine, Binder 48

Vises 54

Watering Cans 50
Weeders 50
Wire, Barbed 51

POULTRY SUPPLIES
Pages 38-41

Brooders and Incubators 38

QUANTITY	ARTICLES WANTED	PRICE	
	Amount Brought Forward		

ORDER FOR SEEDS

—— FROM ——

P. MANN & CO.,

207 Seventh St. N.W., Opposite Centre Market
WASHINGTON, D. C.

Messrs. P. MANN & CO. give no warranty, express or implied, as to description, purity, productiveness, or any other matter of any seeds or bulbs they send out; and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

BE SURE TO FILL IN THESE BLANKS

Name.....

Street, P. O. Box, or R. F. D. Number.....

Post Office.....

County..... State.....

Express or Freight Office }.....

Ship Order by.....

AMOUNT ENCLOSED

Postal Money Order $.....

Express Money Order .....

Draft - - - - - .....

Currency - - - - .....

Postage Stamps - - .....

Date....., 19.....

QUANTITY	ARTICLES WANTED	PRICE	

HAVE A GOOD LAWN!

Sow Mann's Evergreen Lawn Grass

Put Up by Us and Under Our Own Formula

FINE LAWNS can only be made by using the best grade of grasses. The proper blending to give satisfactory results needs the study of years. Among some of the most beautiful lawns of Washington and its suburbs are those sown with **"Evergreen" Lawn Grass Seed.** These seeds should be covered very slightly and a roller run over the ground after sowing. **Pt. 20c, qt. 35c, lb. 40c, 5 lbs. $1.75, bu.** (14 lbs.) **$4.00.**

LAWN GRASS FOR SHADY PLACES AND UNDER TREES. A selection of grasses that thrive well in shaded situations, under trees, or close to walls where there is little sun. **Pt. 20c, qt. 35c, lb. 40c, 5 lbs. $1.75, 10 lbs. $3.00, bu.** (14 lbs.) **$4.00.**

Lawn and Garden Fertilizer

OLD AND NEW LAWNS REQUIRE STIMULATING after the long drag through winter, or in the fall, after the season of cutting and the heat of summer. For this purpose our high-grade Bone Meal is best adapted to the wants of the lawn. It should be sown broadcast from the middle of February to the first of May for spring, and from September to November in the fall. In preparing a new lawn, use a liberal quantity and rake it in thoroughly before sowing the seed. Ten pounds sow enough for 250 square feet. **10 lbs. 50c, 100 lbs. $3.00, 167-lb. bag. $4.75.**

PULVERIZED SHEEP MANURE FOR LAWNS.—Two lbs. 15c, 5 lbs. 30c, 25 lbs. $1.00, 50 lbs. $1.75, 100-lb. bag $2.75. (See page 55.)

SPECIAL PRICES IN TON LOTS

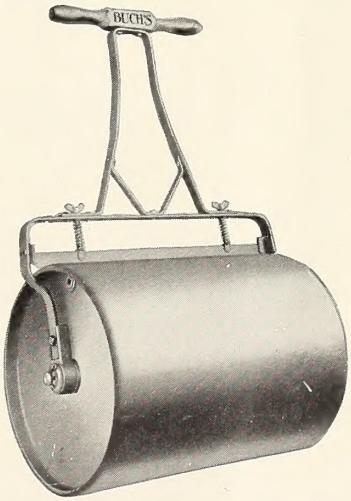
Water Ballast Lawn Rollers

Adapted for Rolling Lawns, Golf Courses, and Tennis Courts

These rollers represent all the latest and up-to-date improvements; they are fitted with hardened steel roller bearings, which reduces the draft by 40 per cent. The counter-balance attached on the outside of the drum induces the handle to stand in an upright position. The outer edges of the drum are well rounded to prevent cutting.

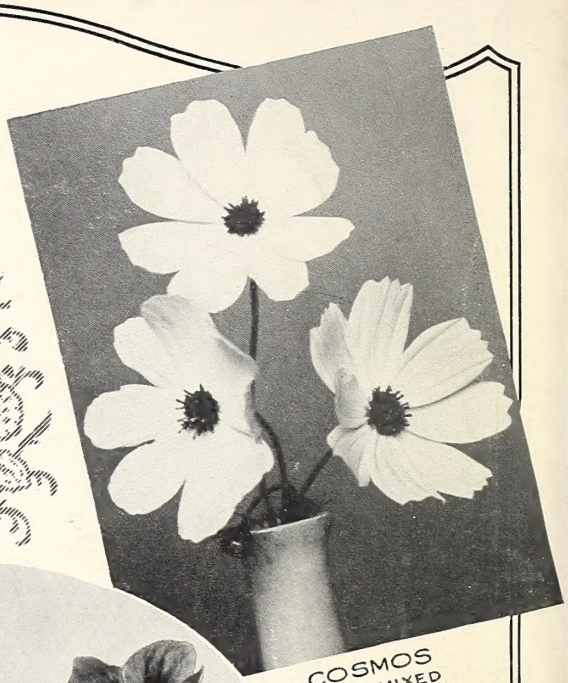
No.	Diameter Inches	Length Inches	WEIGHT Empty	Filled with Water	Filled with Sand	PRICE
601	14	24	70	175	400	**$17.00**
602	18	24	85	265	475	**20.00**
603	24	24	110	420	630	**23.00**
604	24	32	130	565	850	**26.00**
605	18	24	82	265	475	**13.50**
606	18	24	82	265	475	**16.00**

Nos. 605 and 606 Plain Bearing; No Scraper



SPECIAL COLLECTION OF FLOWER SEEDS

CARNATION
MARGUERITE



COSMOS
GIANT MIXED

NASTURTIUM
DWARF MIXED

GLADIOLUS
MRS. FRANK PENDLETON

SWEET PEAS
SPENCER'S MIXED

P. MANN & COMPANY
207 7th ST. N.W. WASHINGTON, D.C.
TELEPHONE ~ ~ MAIN 1121